IEC0003

FULL CHARGE POWER: 35kVA

MEDIUM POWER ABSORPTION: 12kW

C.M.S. GAUGING VALUE: *

C. M. S. S.p.A
Costruzioni Macchine Speciali
I-24019 ZOGNO (Bergamo)

CNC Machining Centres

● TENSIONE NOMINALE 208V Neutro a terra
●Voltage rating ●Tension nominale ●Nennspannung ●Grounded neutral ●Neutre au sol ●Nulleiter

● N° FASI 3 ● FREQUENZA 60Hz
●Phases ●Nombre de Phases ●Zahl der Phasen ●Frequency ●Fréquence ●Frequenz

● CORRENTE A PIENO CARICO 95A
●Full charge current ● Courant à plein charge ● Strom bei vollast

● POTERE D'INTERRUZIONE
DEL DISPOSITIVO DI PROTEZIONE kA
●Breaking capacity ● Pouvoir de coupure ● Abschaltleistung

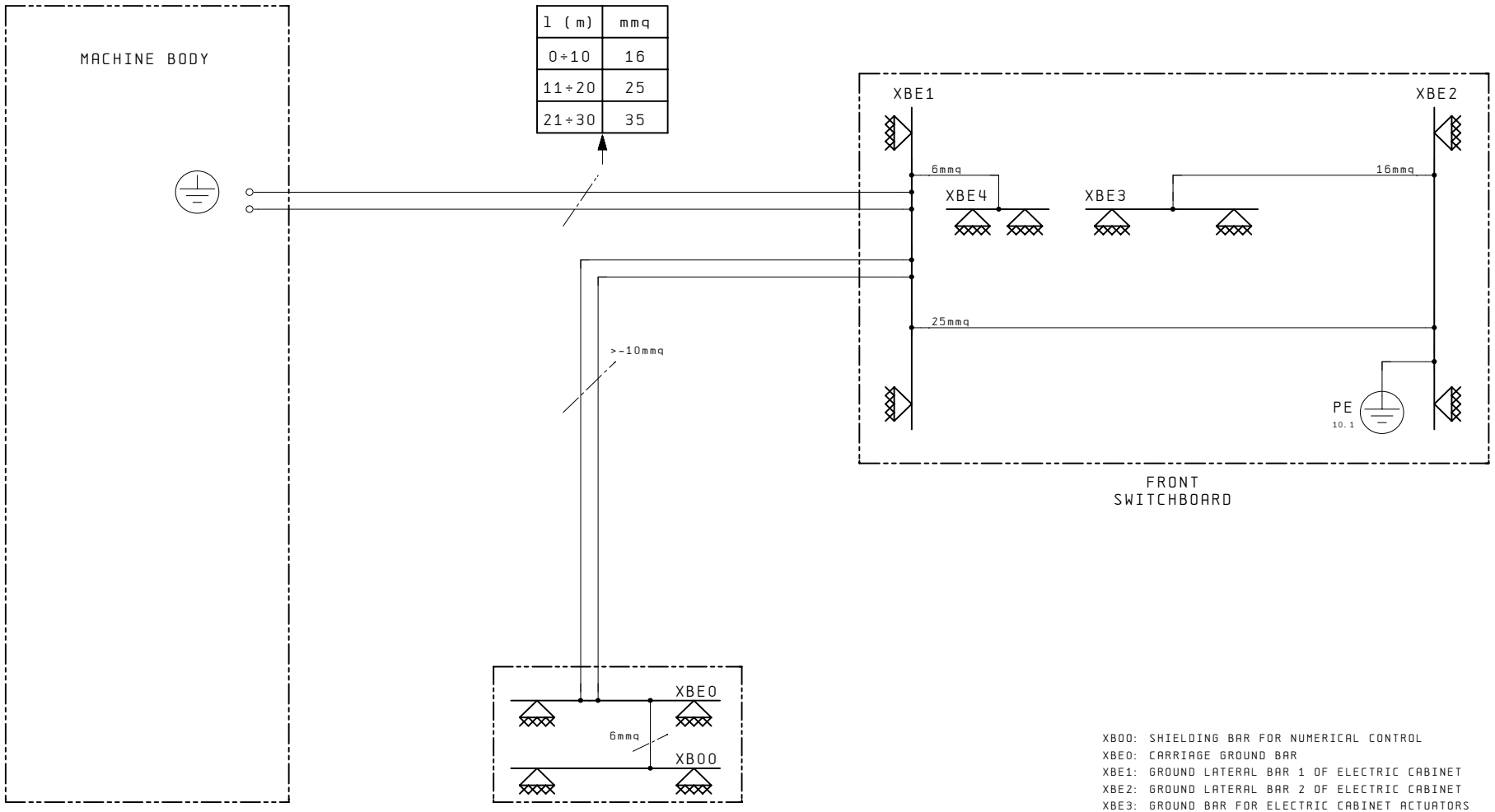
● SCHEMA CMS3085SEL ● N° SERIE 3085
●Diagram ● Schéma ● Schaltplan ●Serial number ●Numéro de série ●Seriennummer

TRANSMISSION CODE Es.: 8L1/21.1
WIRE NUMBER
PAGE NUMBER
COLUMN NUMBER

MACHINE TYPE
NC-MAXIMA

N° Rev.	DESCRIPTION OF REVISION	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
0	NEW EXECUTION PROJECT	BETTONI	22.07.02	GUSMINI	22.07.02		
1	REV. 4 F.D.O. PB3085 16.10.02	BETTONI	17.10.02	TIRABOSCHI	17.10.02		
2	AS BUILT	BETTONI	21.10.02	TIRABOSCHI	21.10.02		

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	GENERAL SPECIFICATIONS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 1

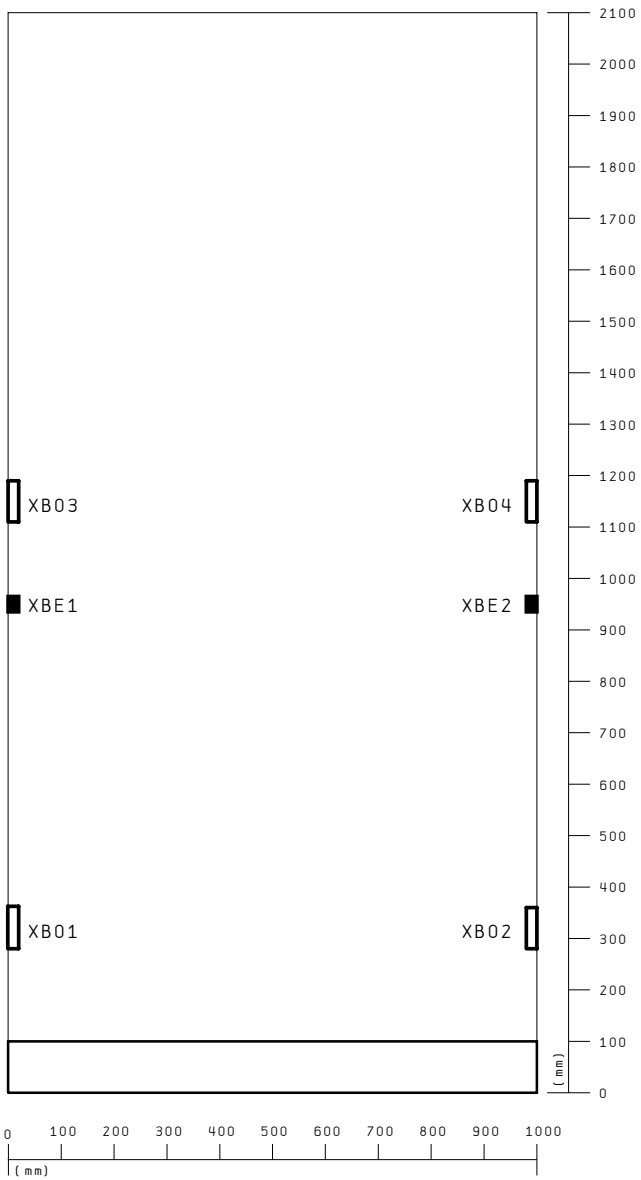


XBO0: SHIELDING BAR FOR NUMERICAL CONTROL
XBE0: CARRIAGE GROUND BAR
XBE1: GROUND LATERAL BAR 1 OF ELECTRIC CABINET
XBE2: GROUND LATERAL BAR 2 OF ELECTRIC CABINET
XBE3: GROUND BAR FOR ELECTRIC CABINET ACTUATORS
XBE4: GROUND BAR FOR THREE-PHASE MOTORS

: ELECTRICAL CONNECTION BETWEEN BAR AND FRAME

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	EQUIPOTENTIAL CONNECTION LAYOUT	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 2

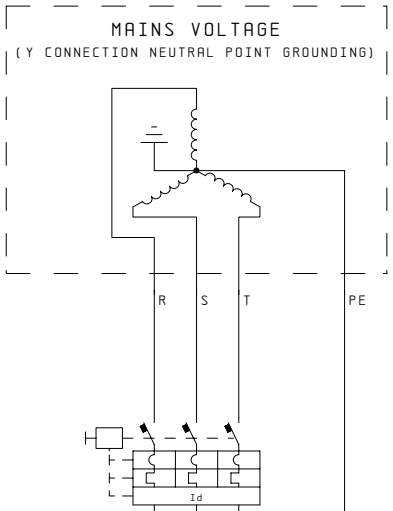
FRONT VIEW



XB01 POWER	W510-A W520-A W530-A W570-A
XB02	
XB03 POWER	W360-A W410-A W420-A
XB04 ENCODER	W515-C W525-C W535-C W575-C

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	EQUIPOTENTIAL CONNECTION LAYOUT	CMS3085SEL NC-MAXIMA Pg. 3
Designer	BRN				
Plot	21.10.02				

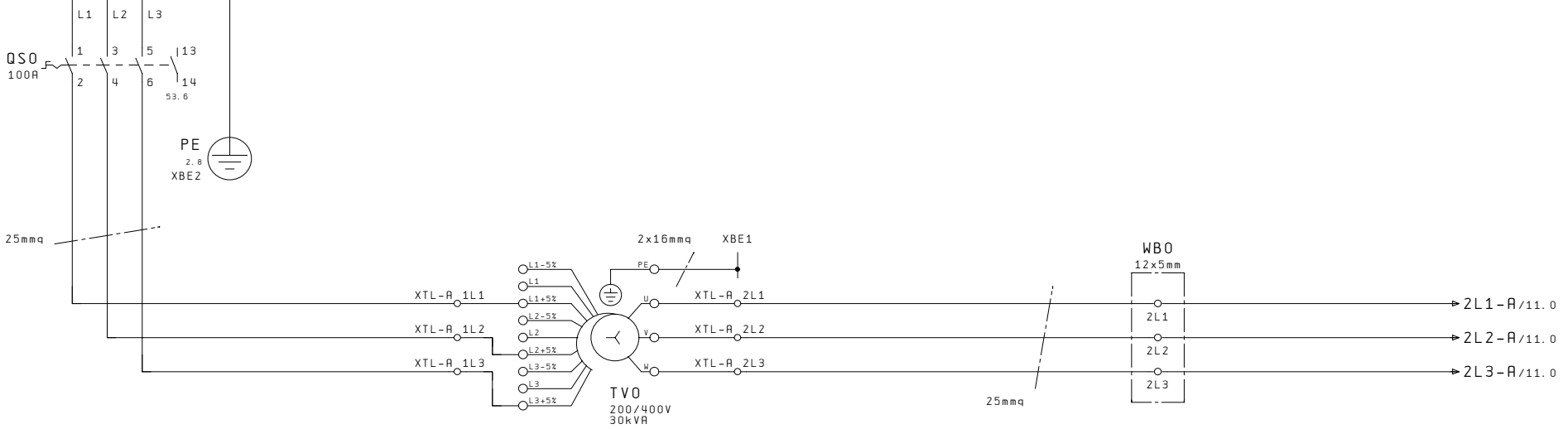
MAINS POWER SUPPLY



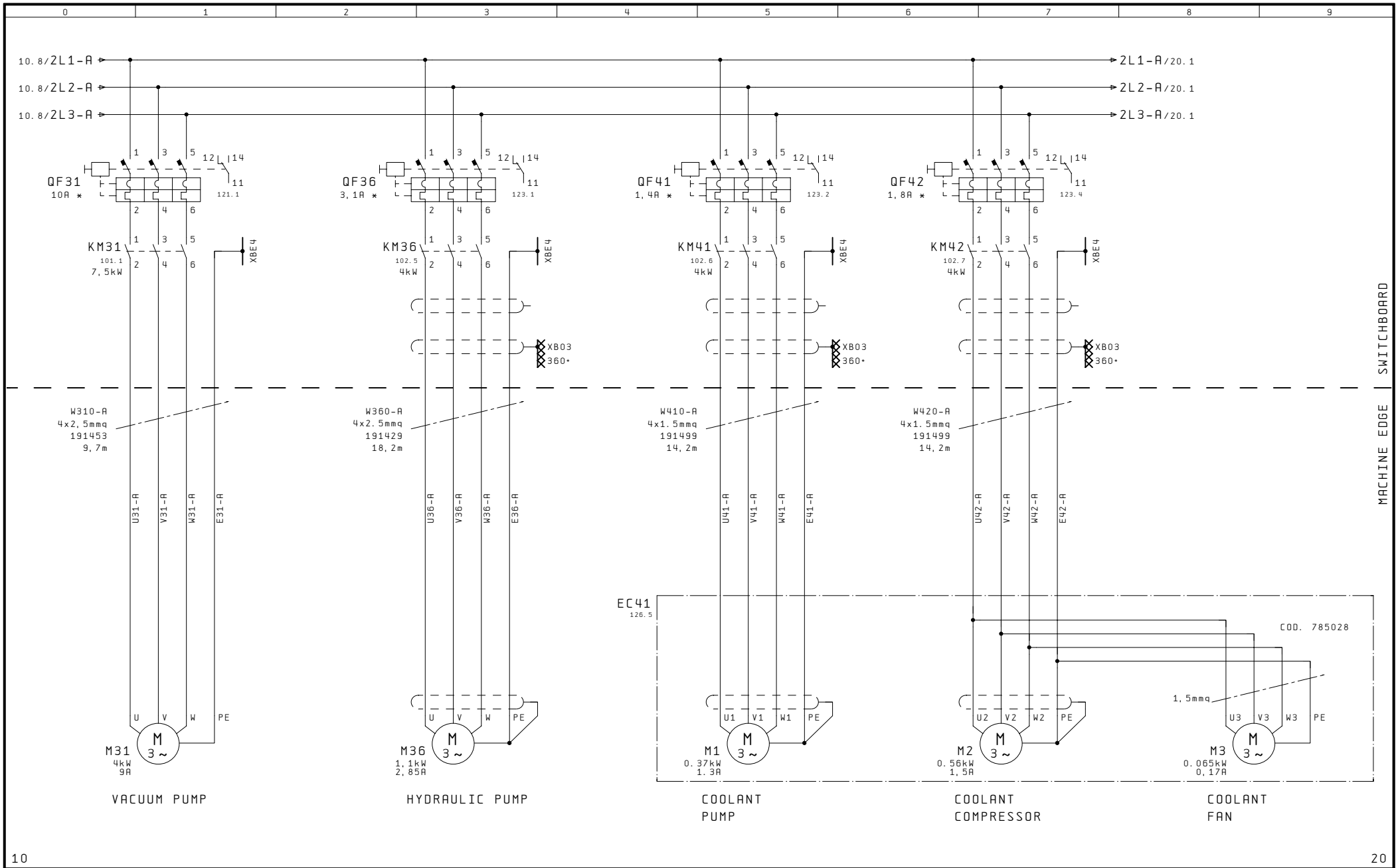
POWER SUPPLY LINE PROTECTION COORDINATION

FULL LOAD CURRENT A	CABLE SECTION mmq	'C' CHARACTERISTIC MAGNETOTHERMAL CUTOUT A
---> 28	10	32
29 ---> 36	10	40
37 ---> 46	16	50
47 ---> 54	16	63
55 ---> 76	25	80
77 ---> 92	35	100
93 ---> 110	50	125
111 ---> 150	70	160
151 ---> 185	95	200
186 ---> 215	120	225

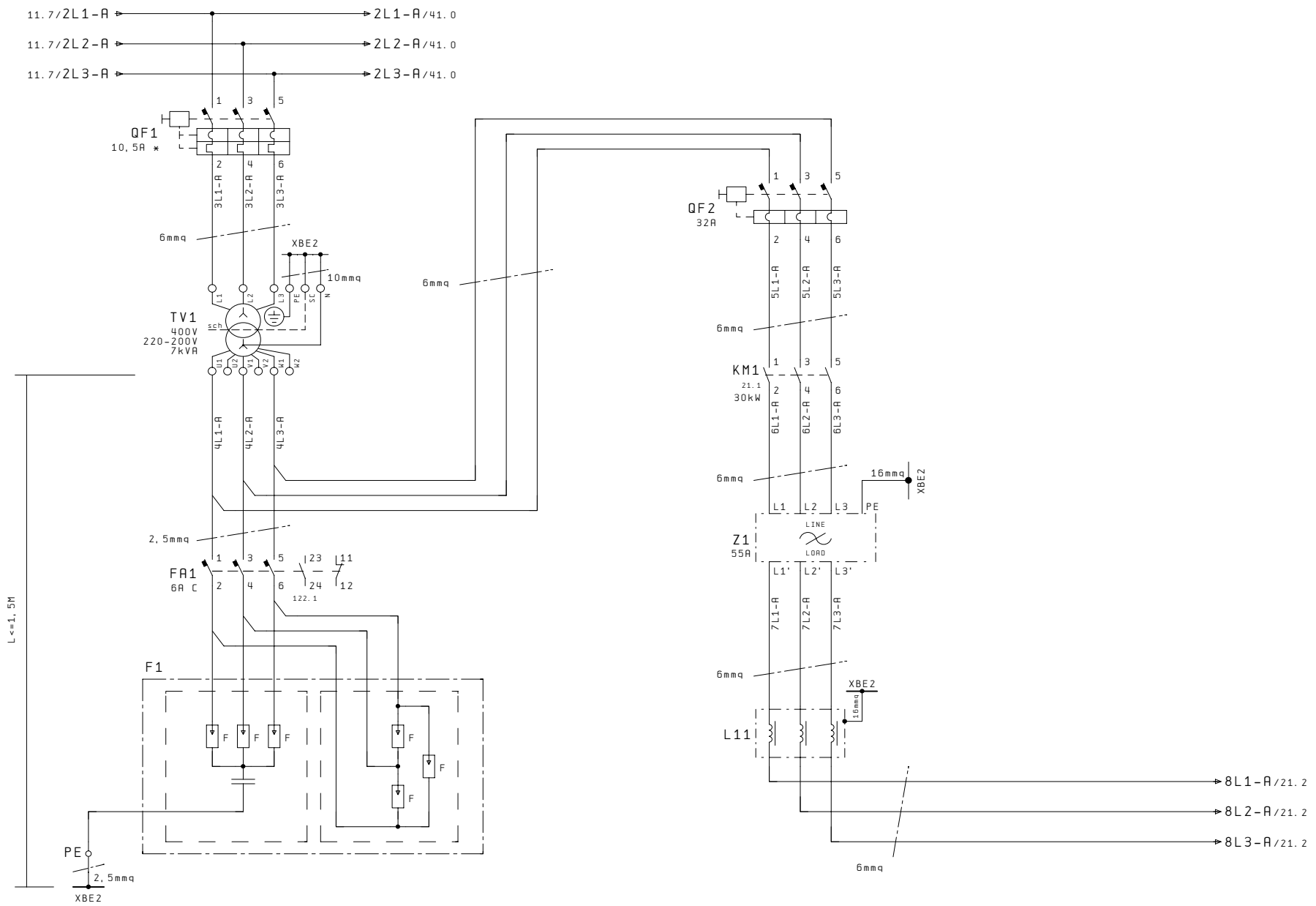
SWITCHBOARD



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	MASTER POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 10

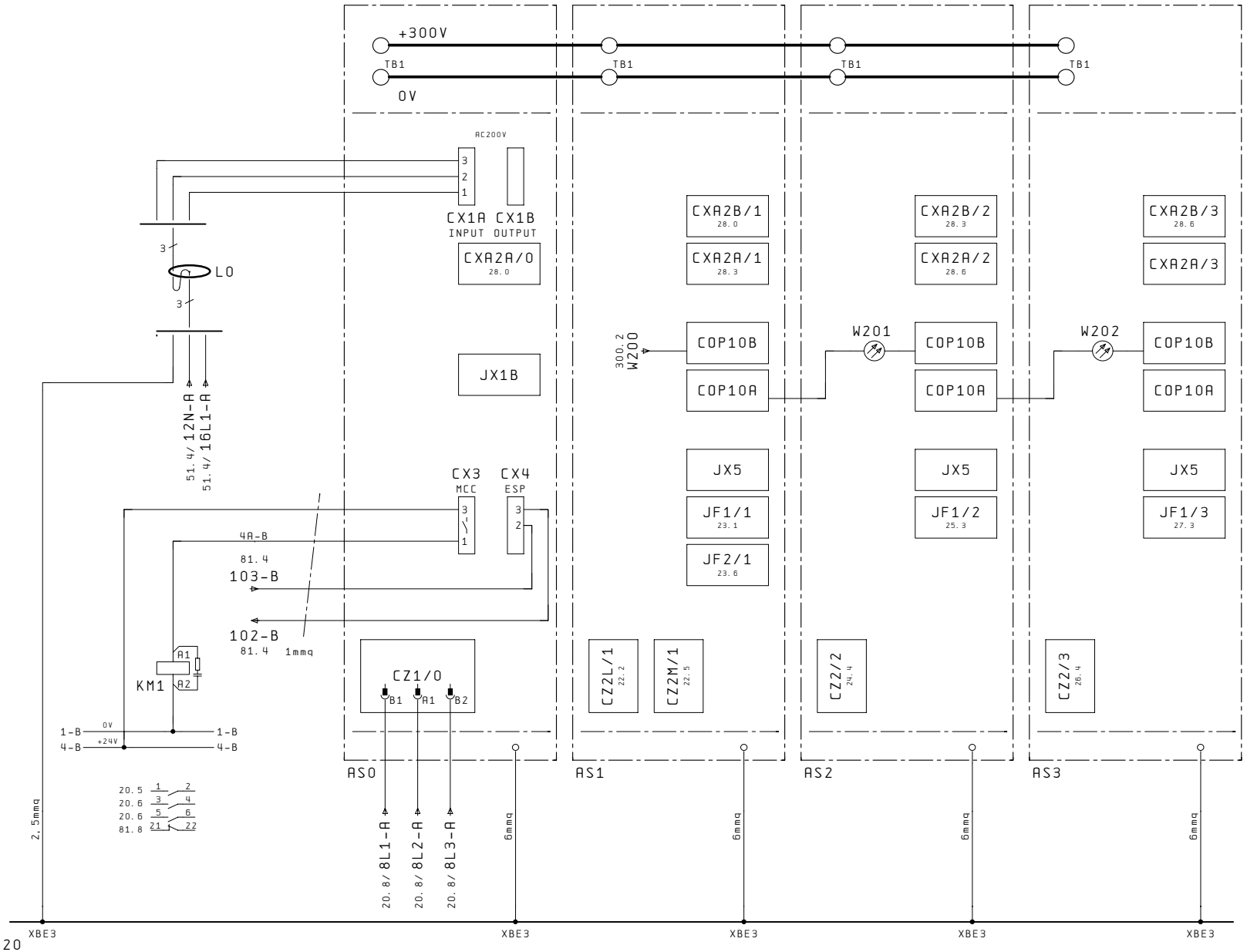


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	THREE-PHASE MOTOR POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 11

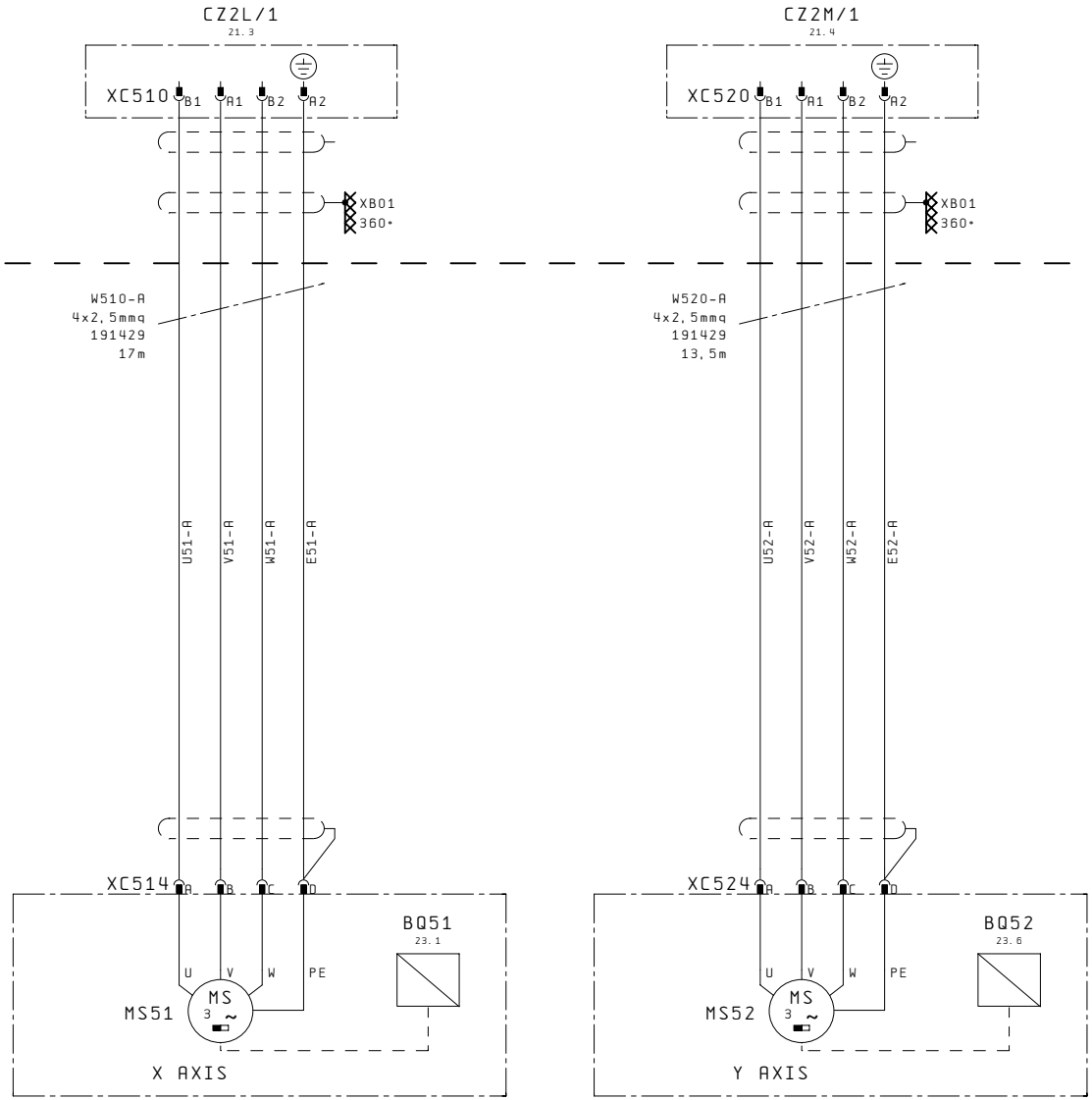


11 21

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS CONVERTER POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 20



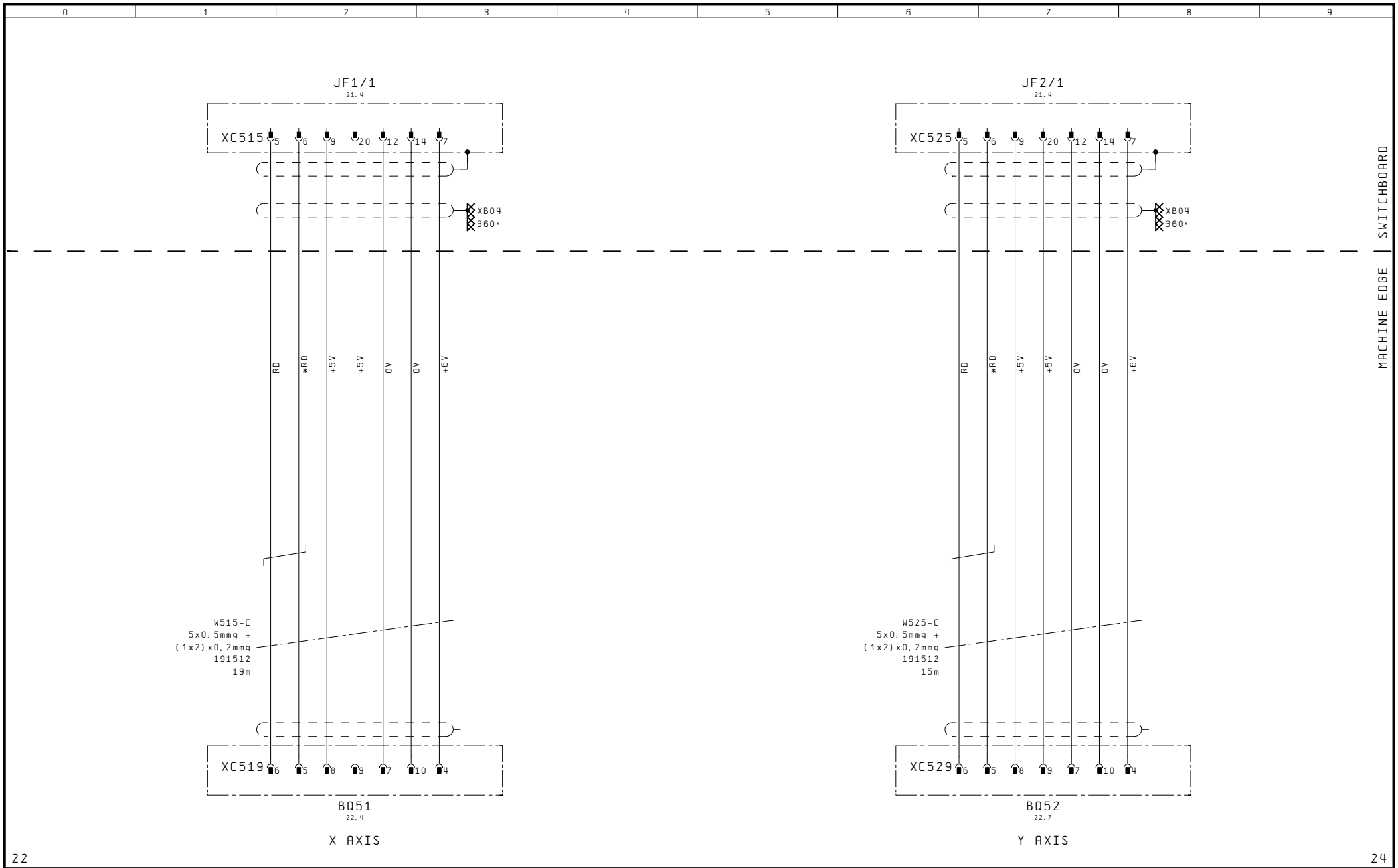
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS SERVOMOTOR CONVERTERS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 21



21

23

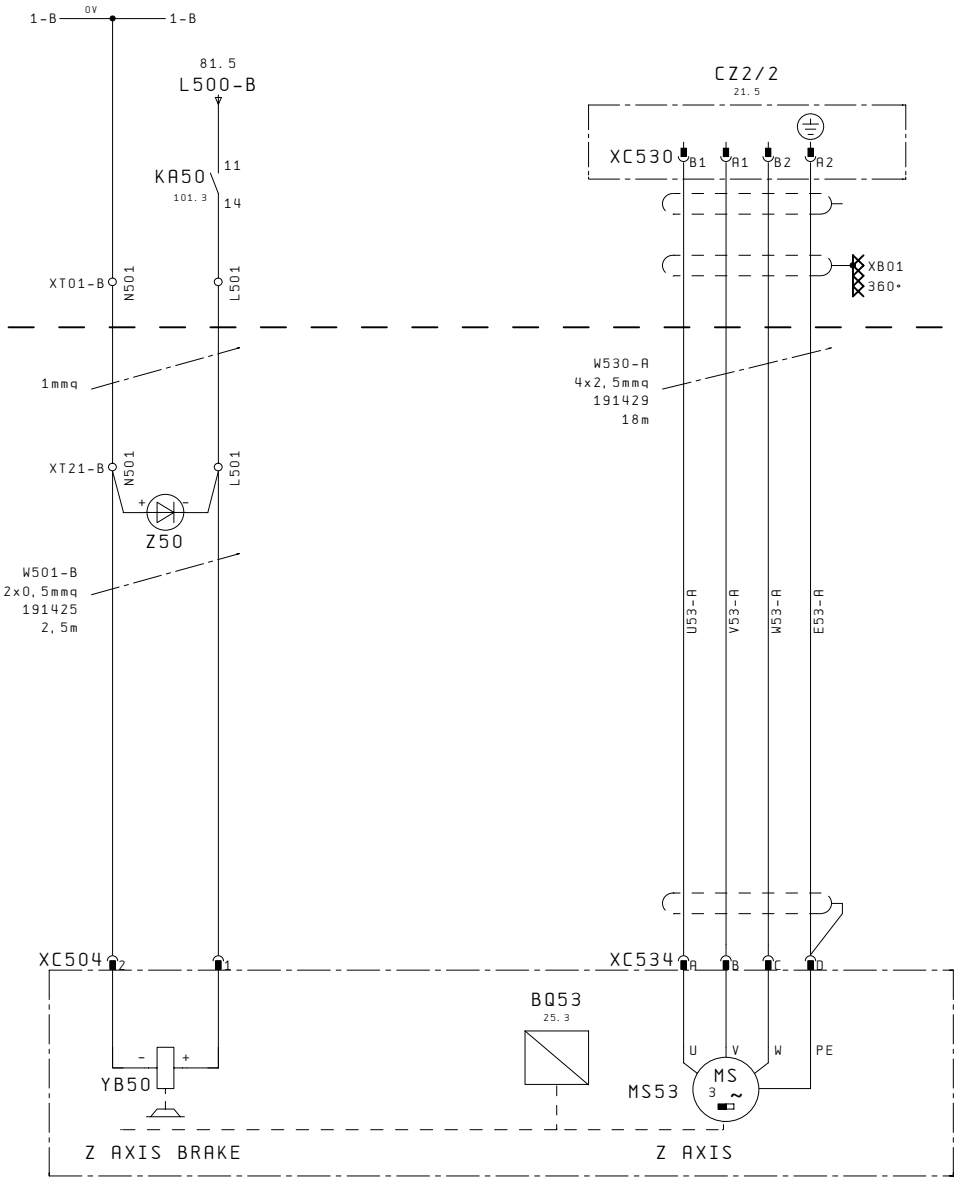
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS POWER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 22



22

24

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS ENCODER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 23



MACHINE EDGE | SWITCHBOARD

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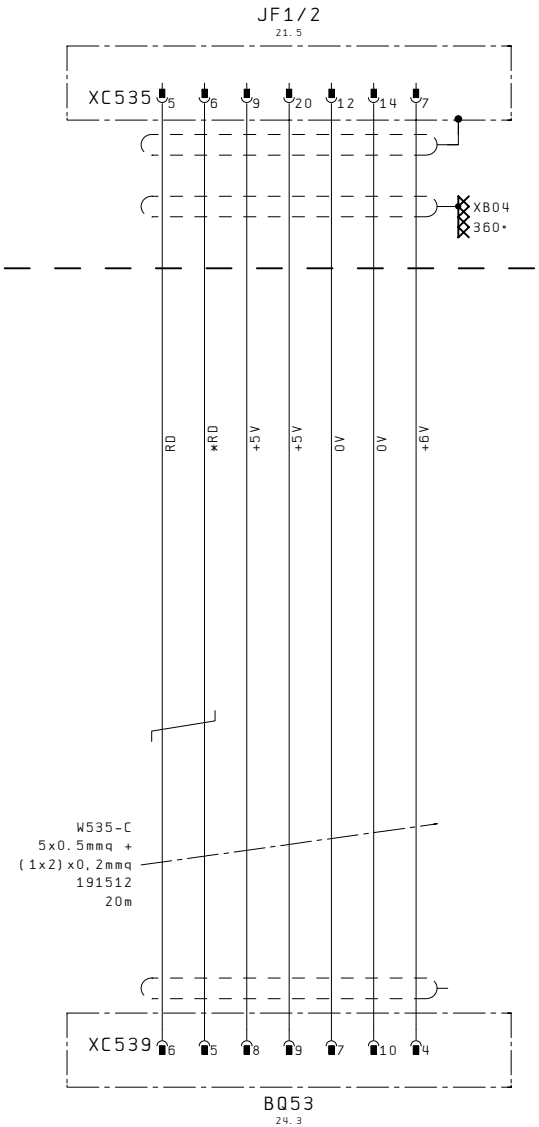
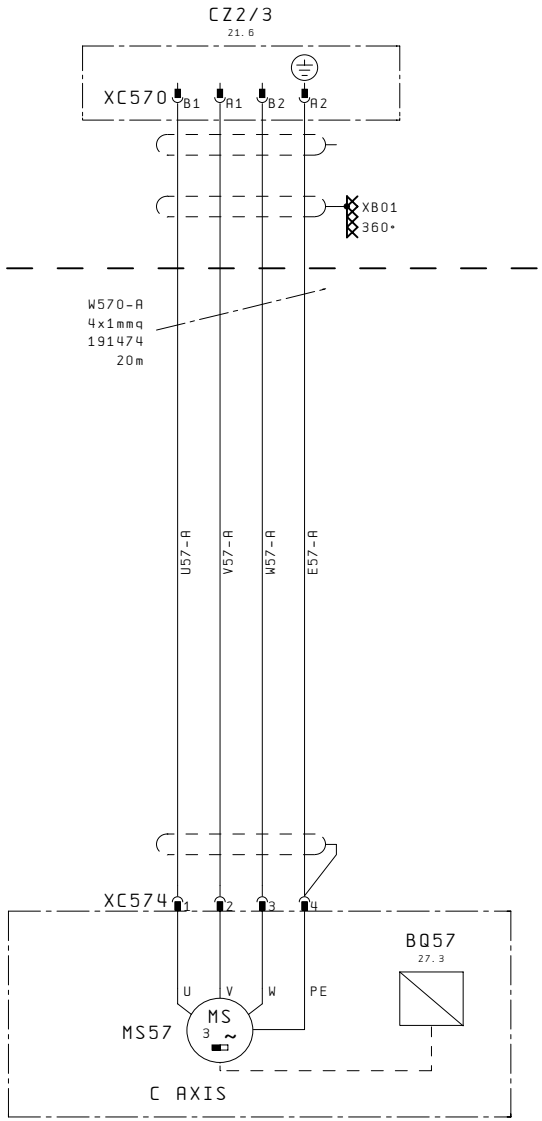
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS POWER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 24



Z AXIS

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS ENCODER	CMS3085SEL
Designer	BRN				NC-MAXIMA Pg. 25
Plot	21.10.02				



MACHINE EDGE | SWITCHBOARD

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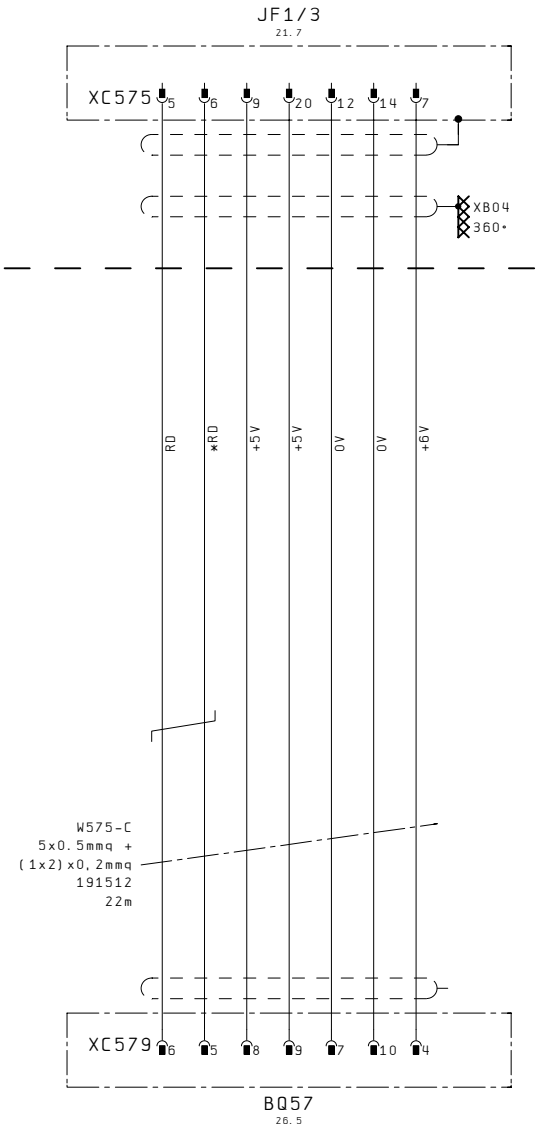
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS POWER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 26



C AXIS

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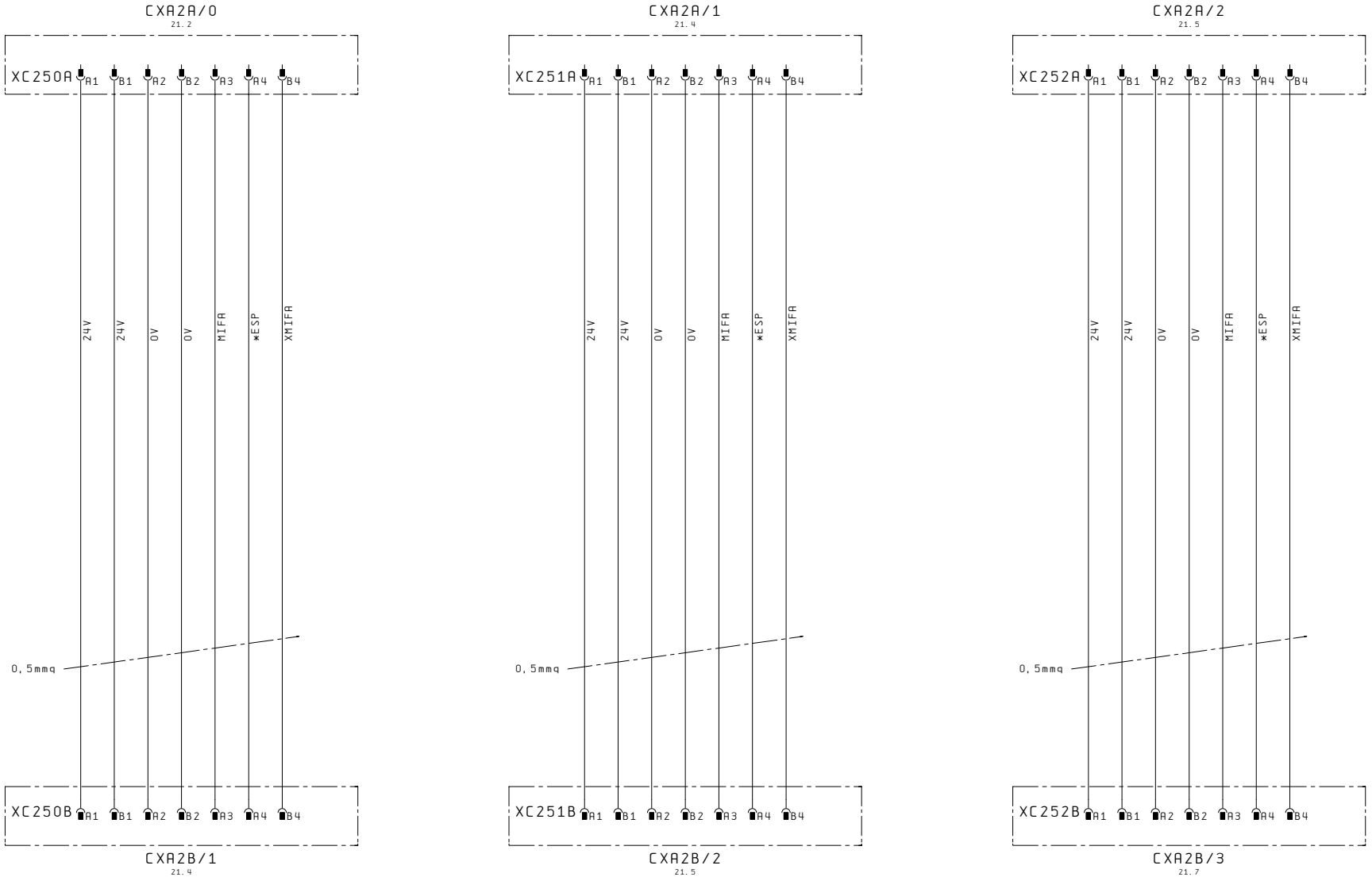
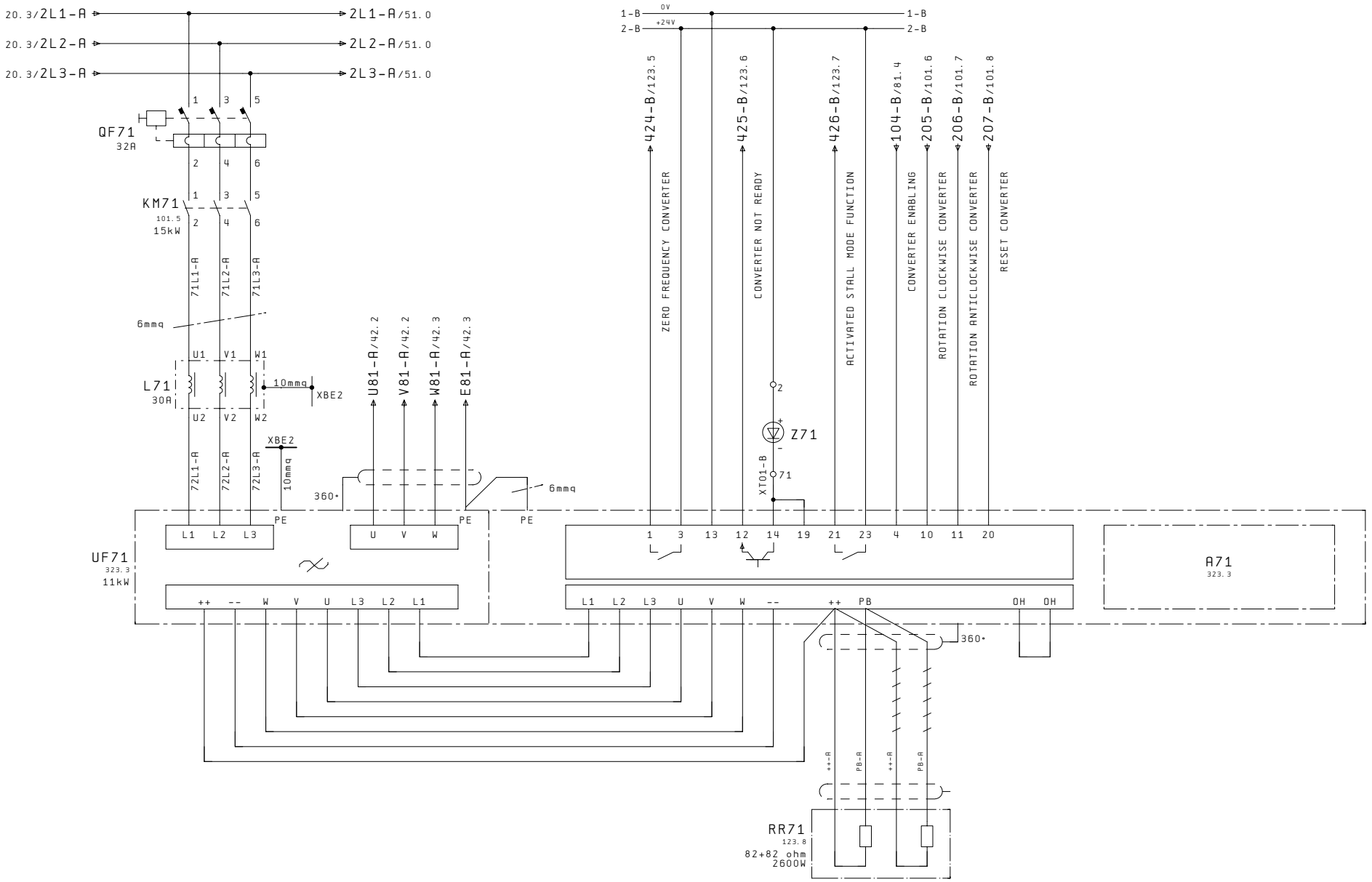
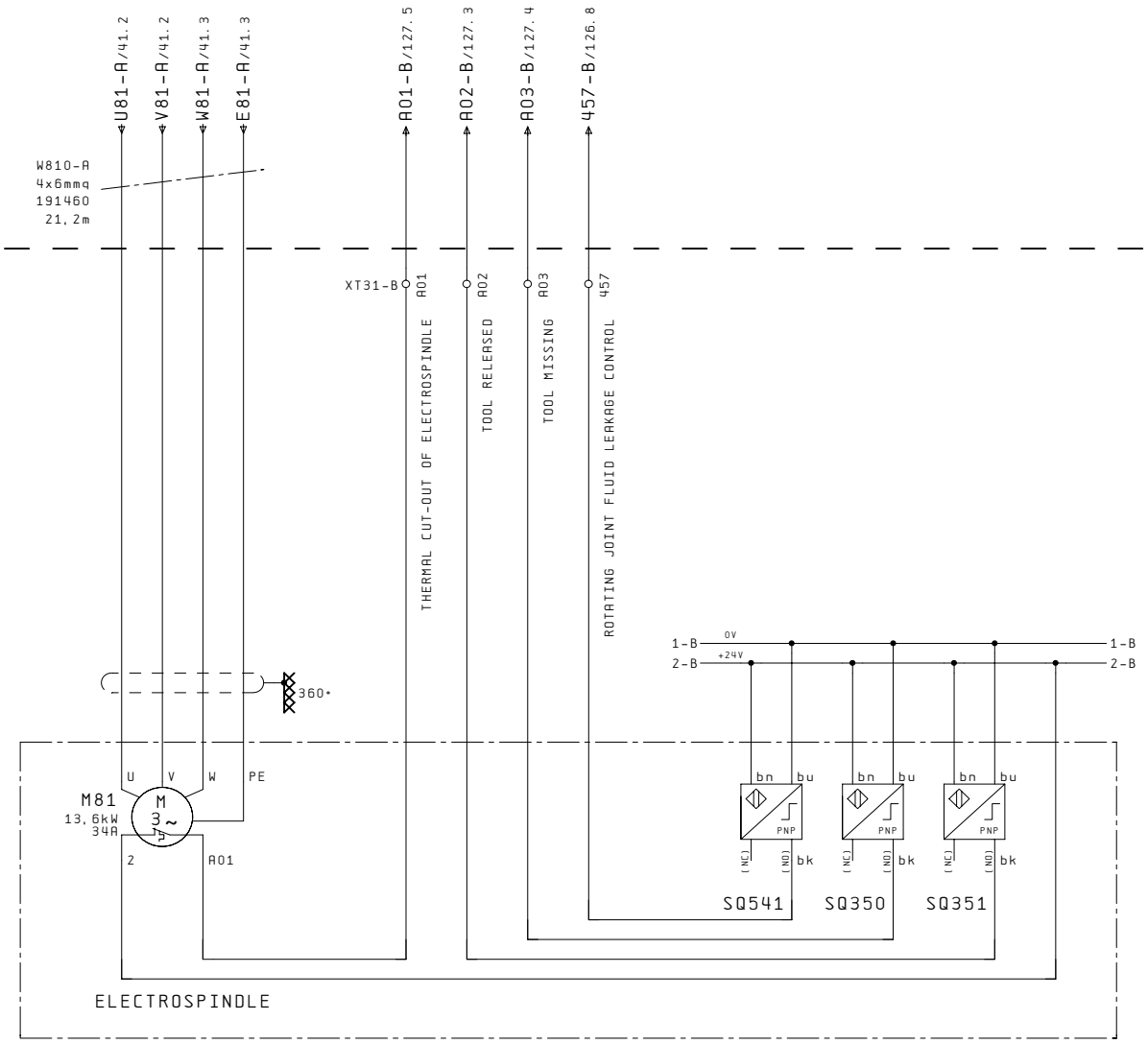
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS ENCODER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 27



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	AXIS CONVERTER OF ALARM CABLE DESCRIPTION	CMS3085SEL
Designer	BRN				NC-MAXIMA Pg. 28
Plot	21.10.02				

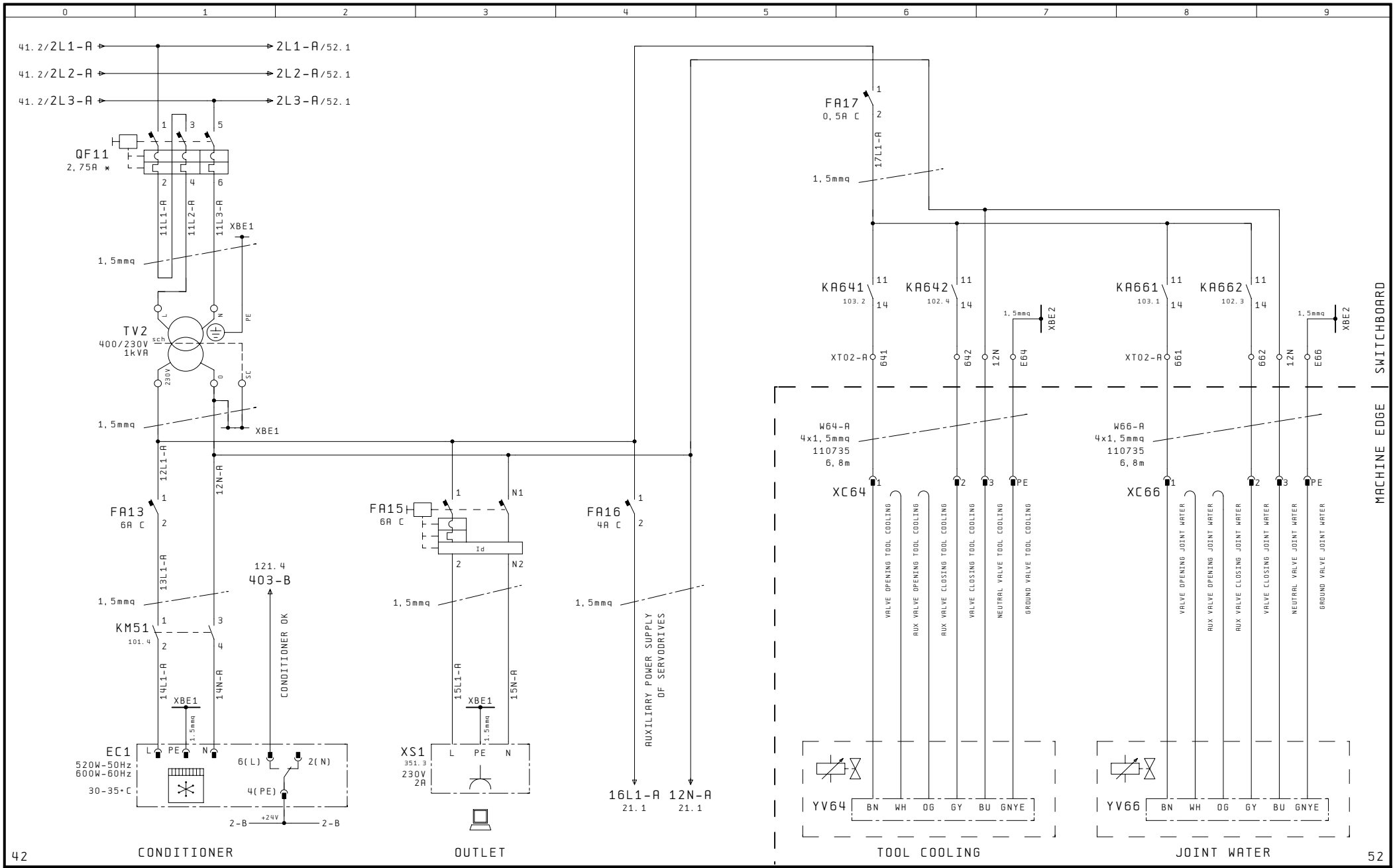


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	ELECTROSPINDLE CONVERTER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 41

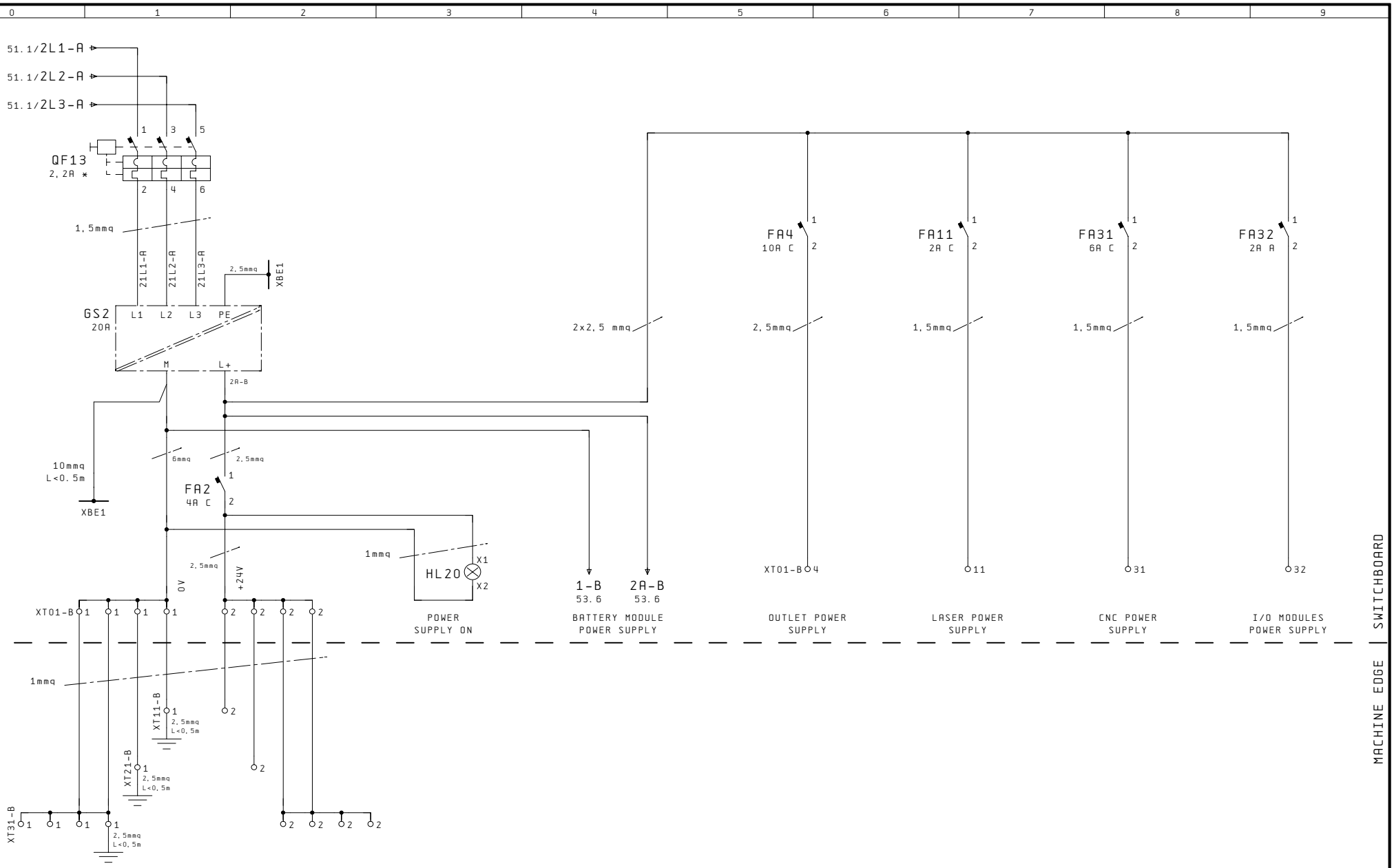


41 51

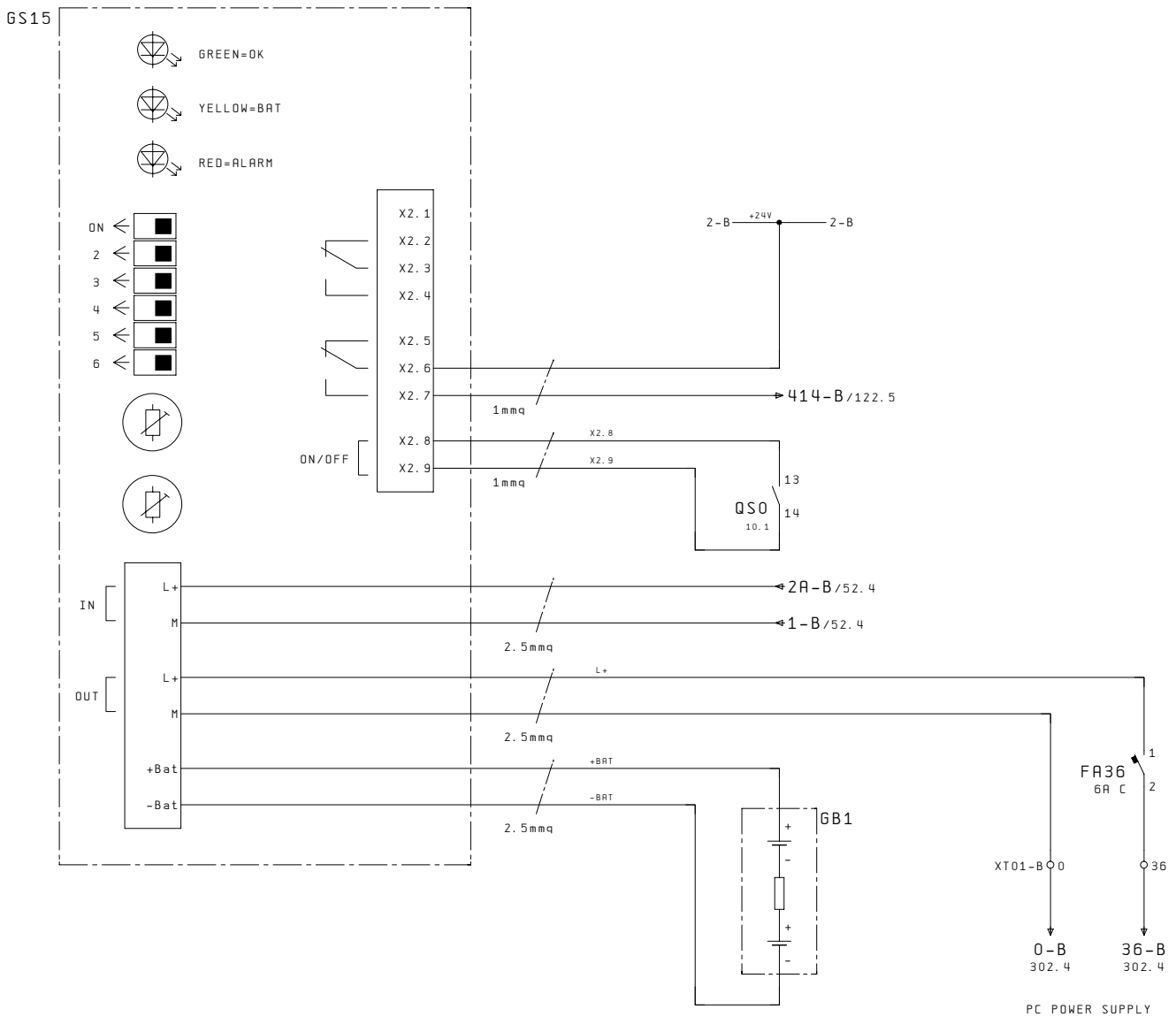
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	ELECTROSPINDLE	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 42



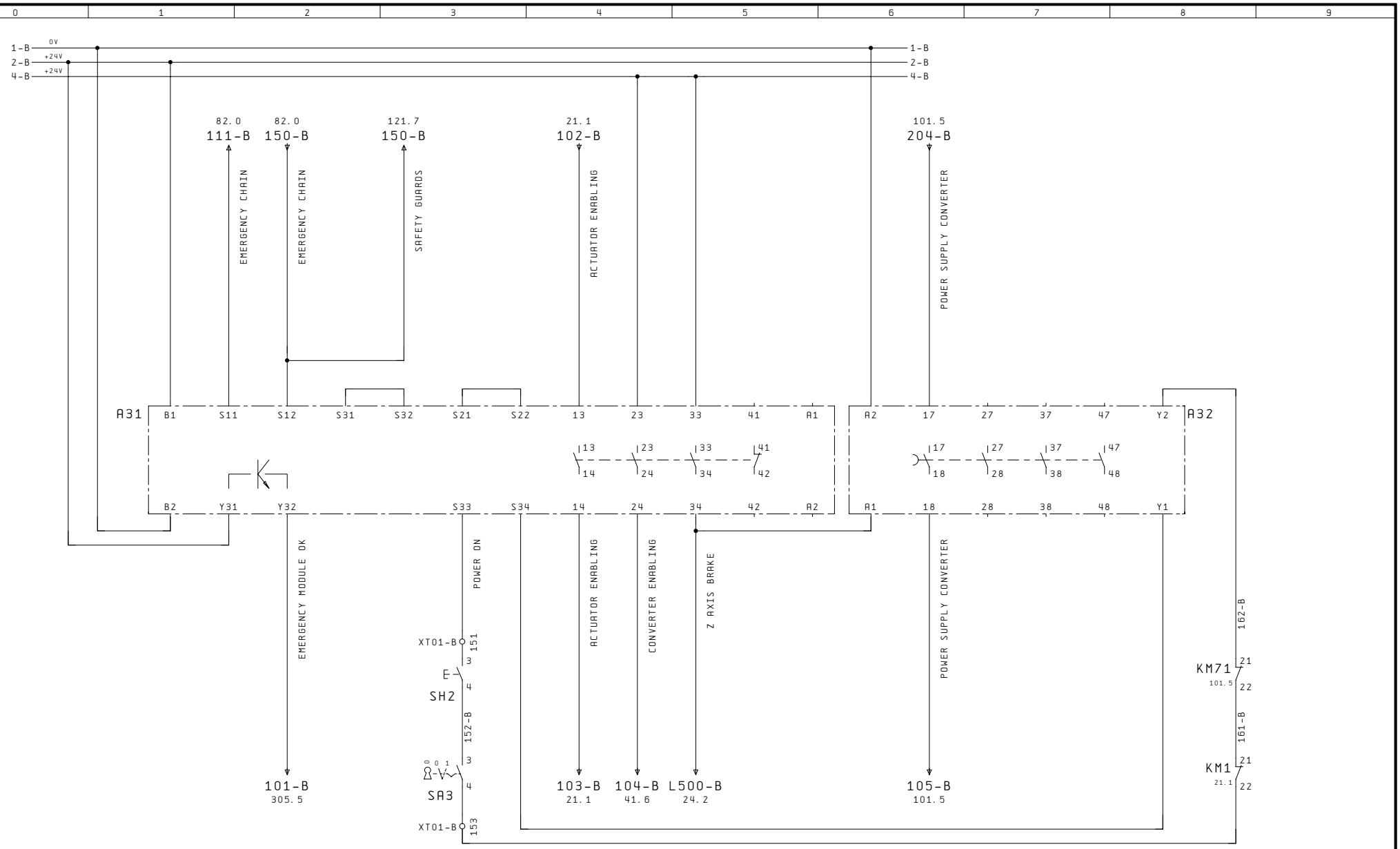
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	230V USE POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 51



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	24V USE POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 52

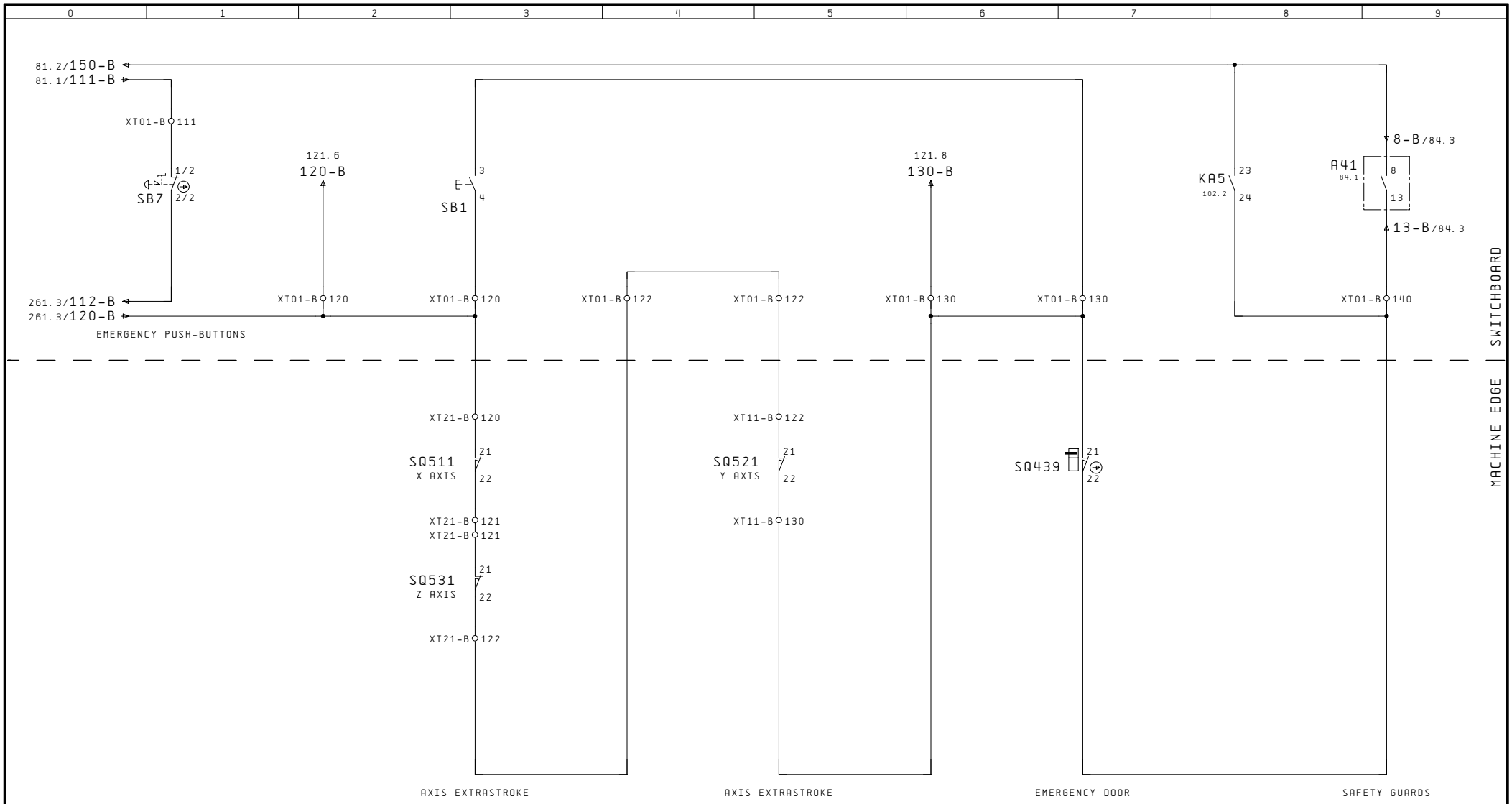


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	24V USE POWER SUPPLY	CMS3085SEL
Designer	BRN				NC-MAXIMA Pg. 53
Plot	21.10.02				

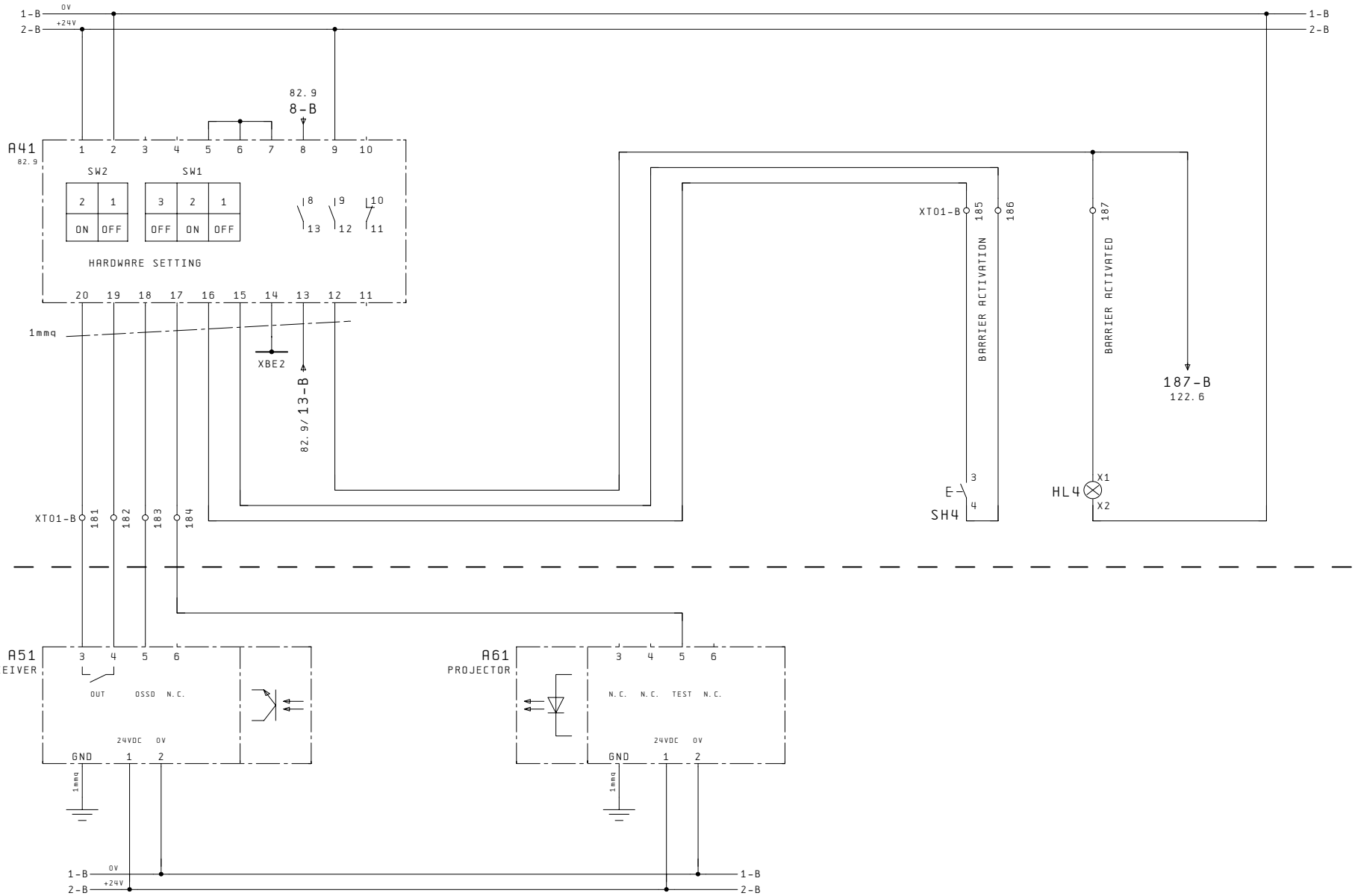


53 82

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SAFETY MODULE	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 81



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	EMERGENCY CHAIN	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 82



MACHINE EDGE | SWITCHBOARD

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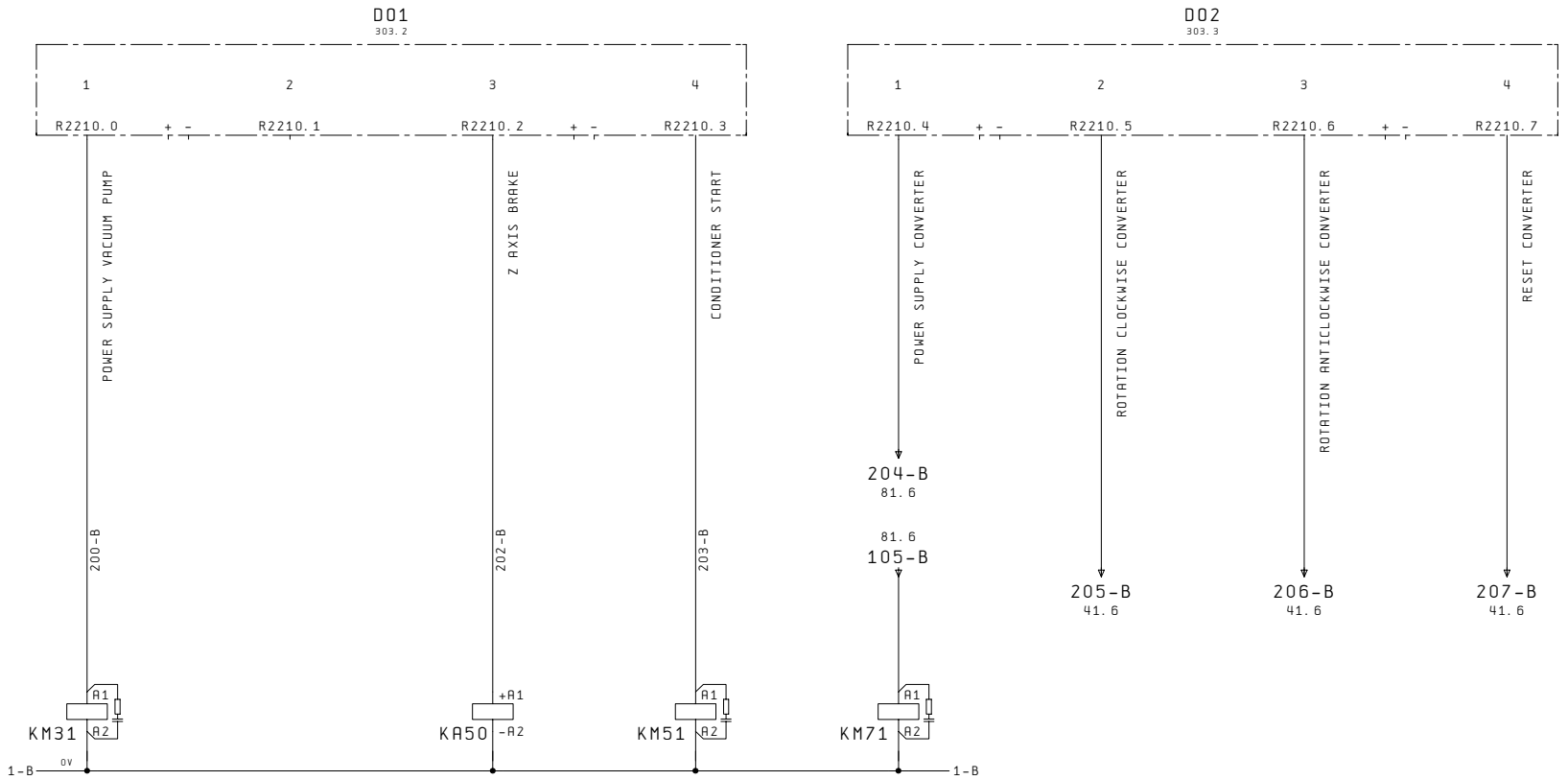
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SAFETY BARRIER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 84



MACHINE EDGE | SWITCHBOARD

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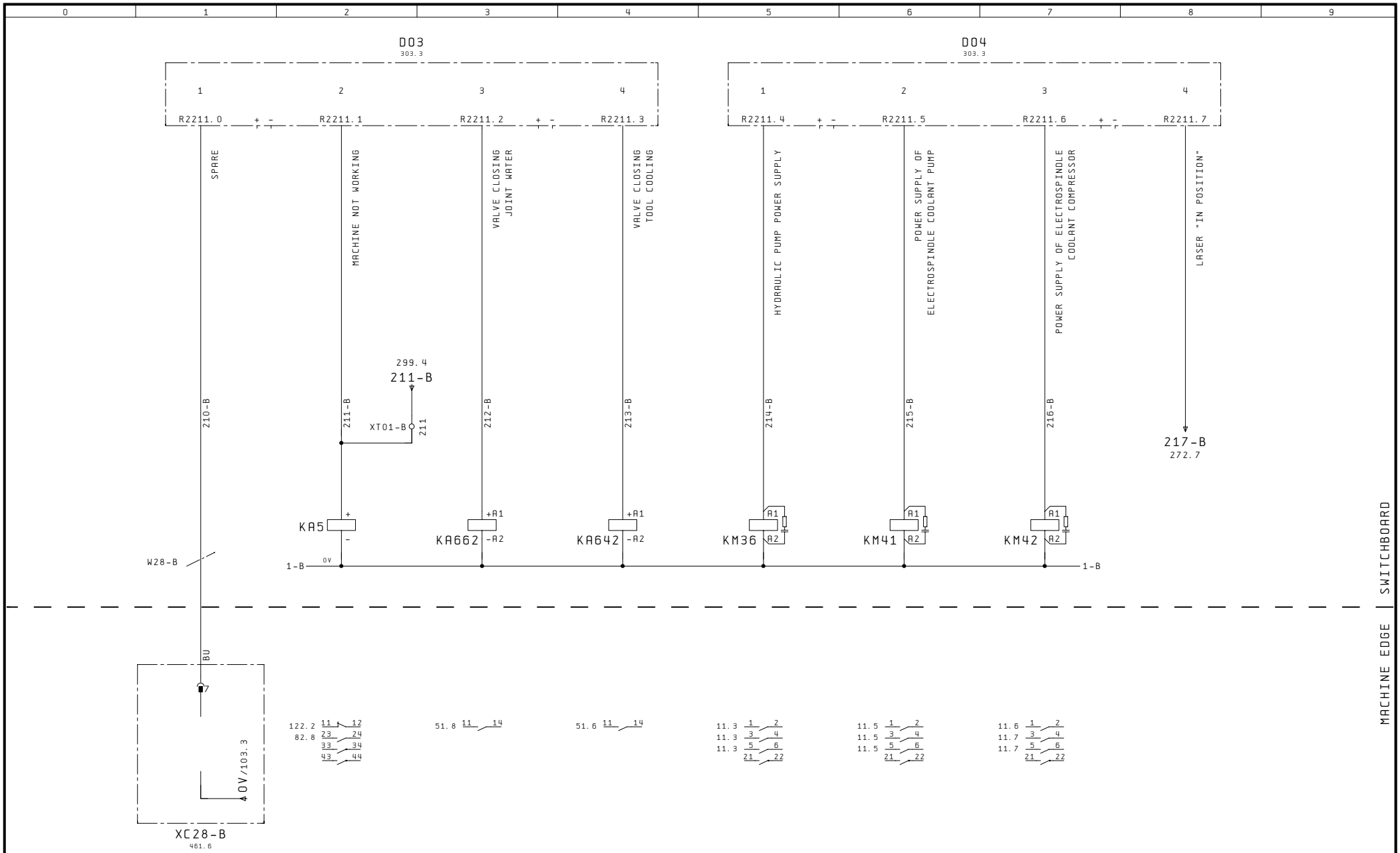
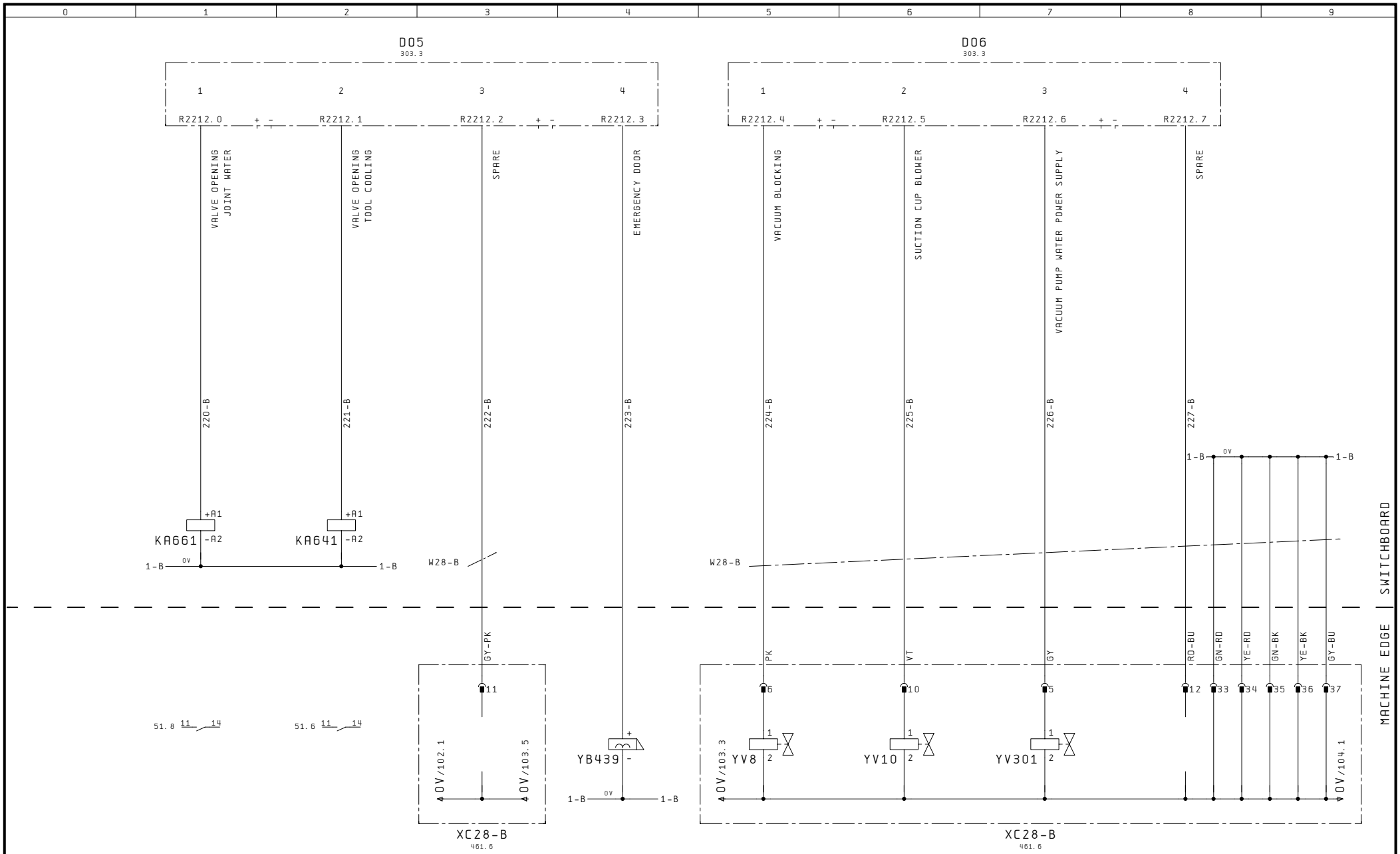
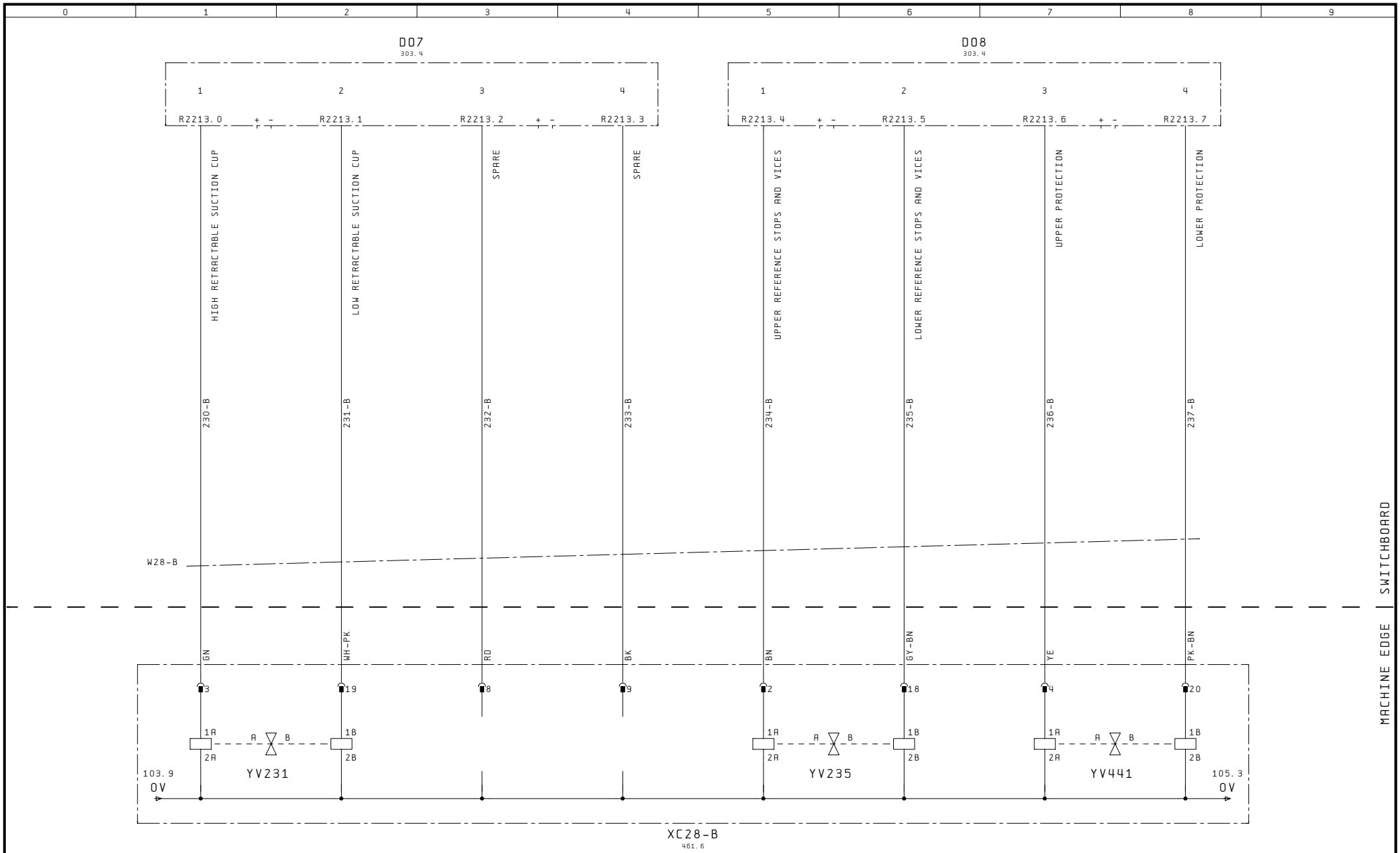
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 101



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 102



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 103



103

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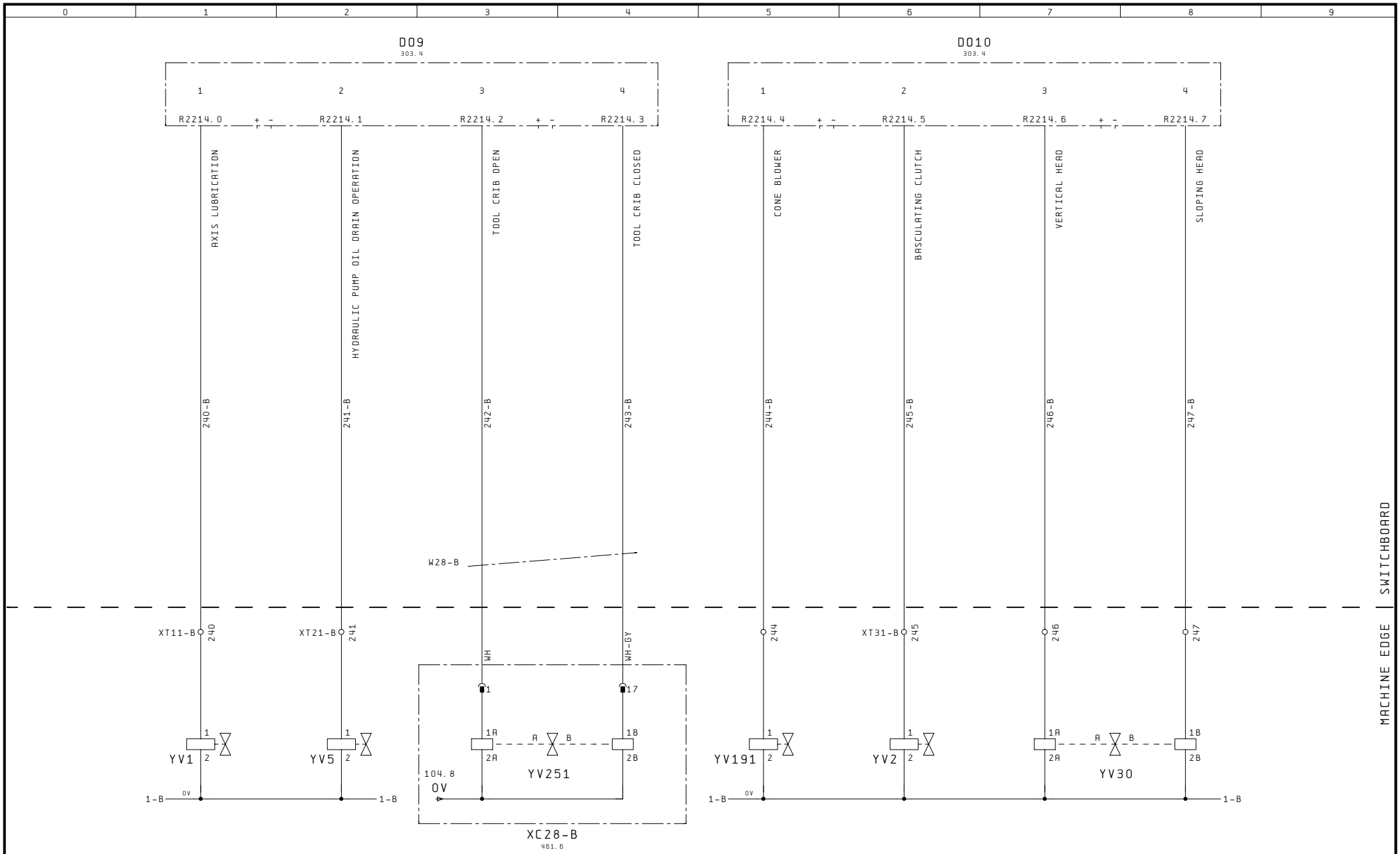
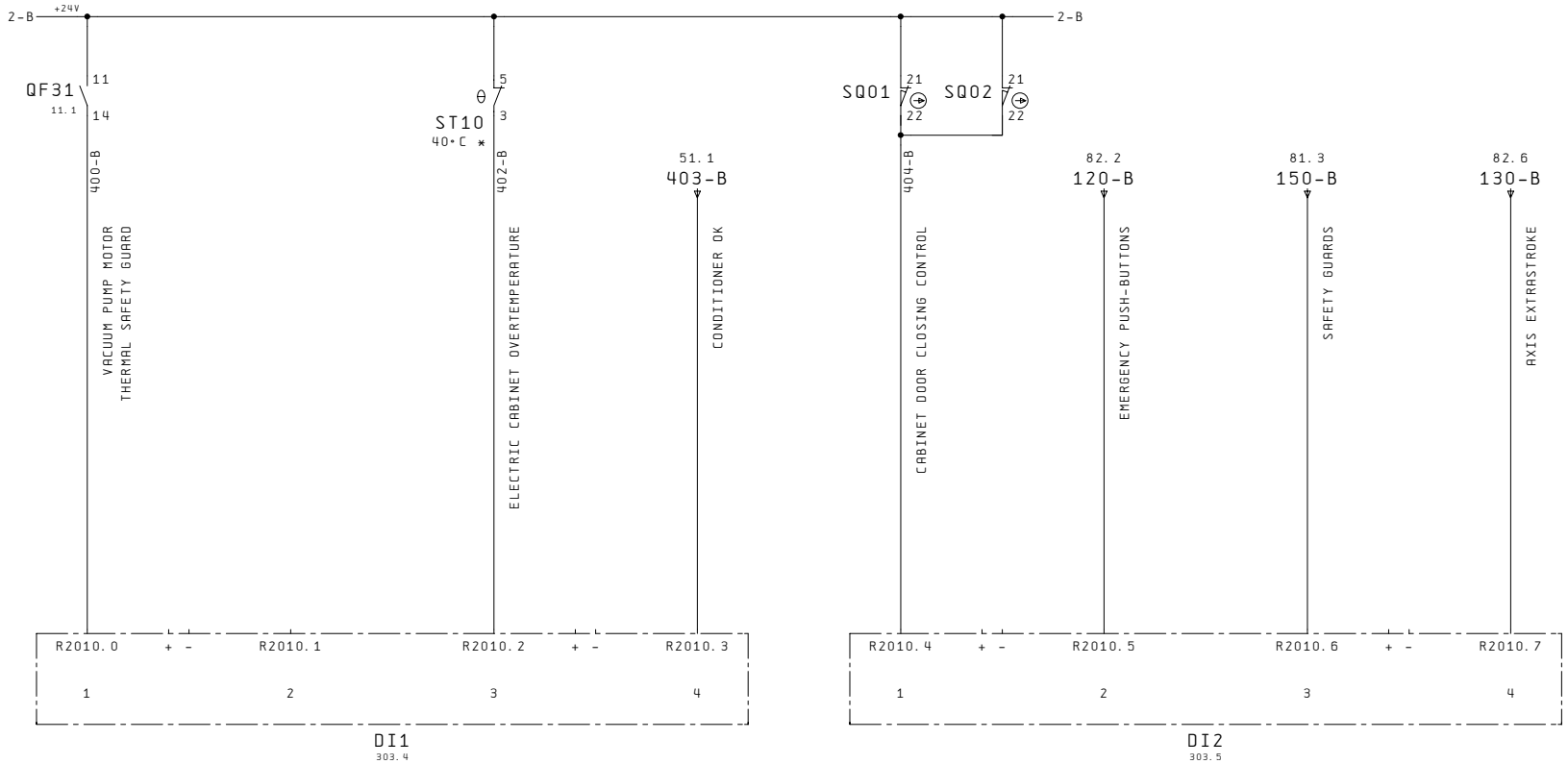
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 104

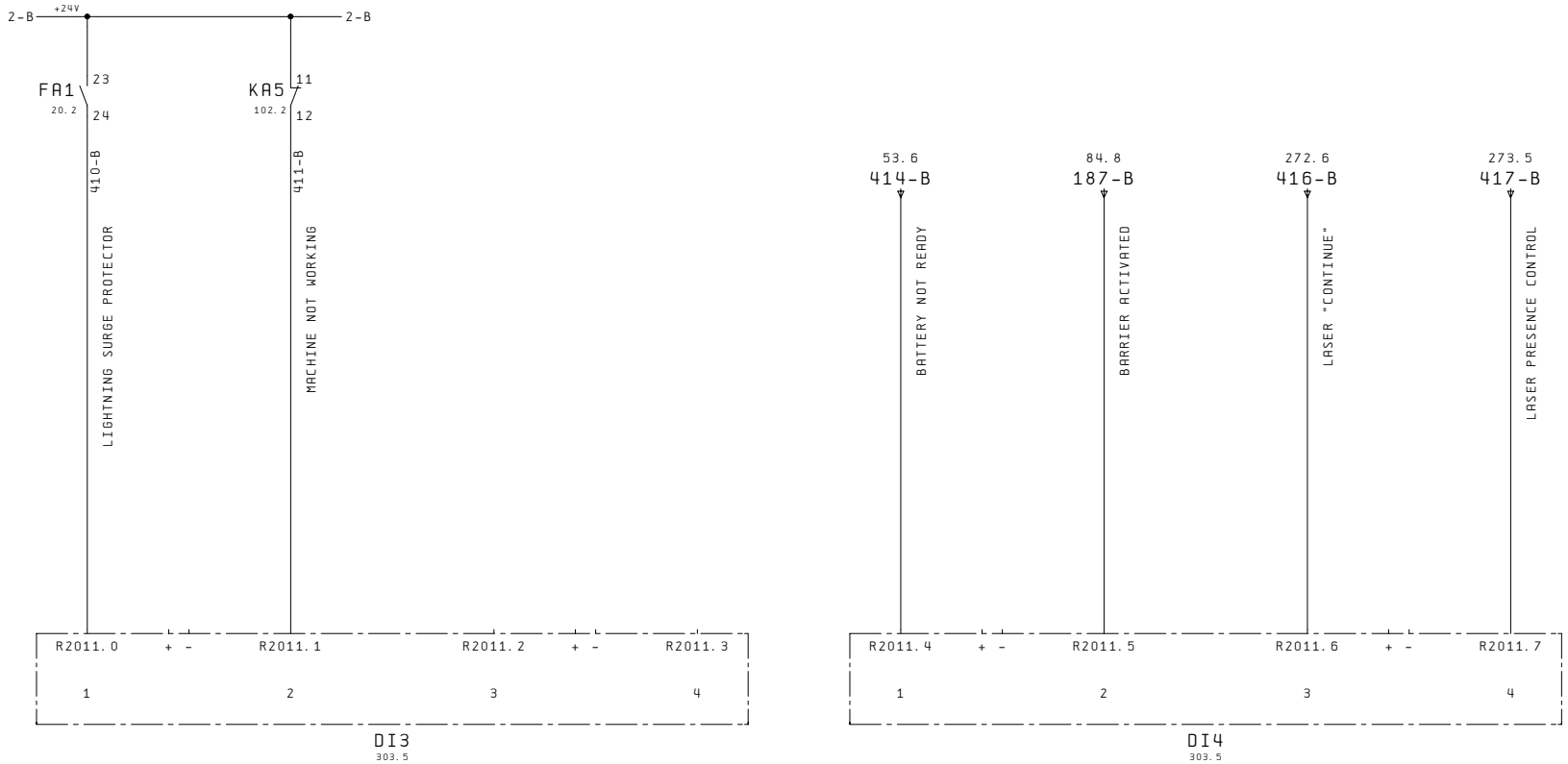


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	OUTLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 105



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 121

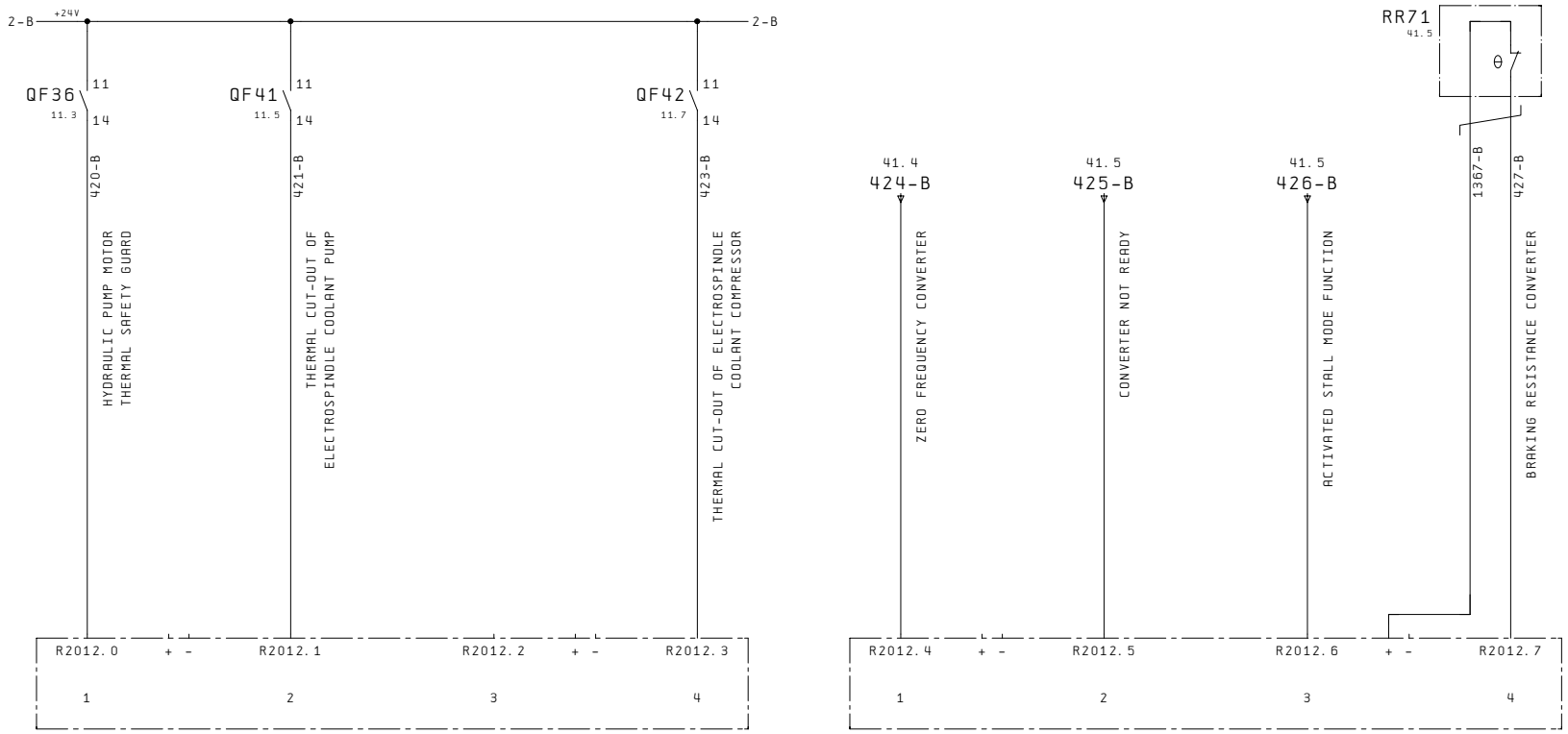
SWITCHBOARD | MACHINE EDGE



121

123

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 122



122

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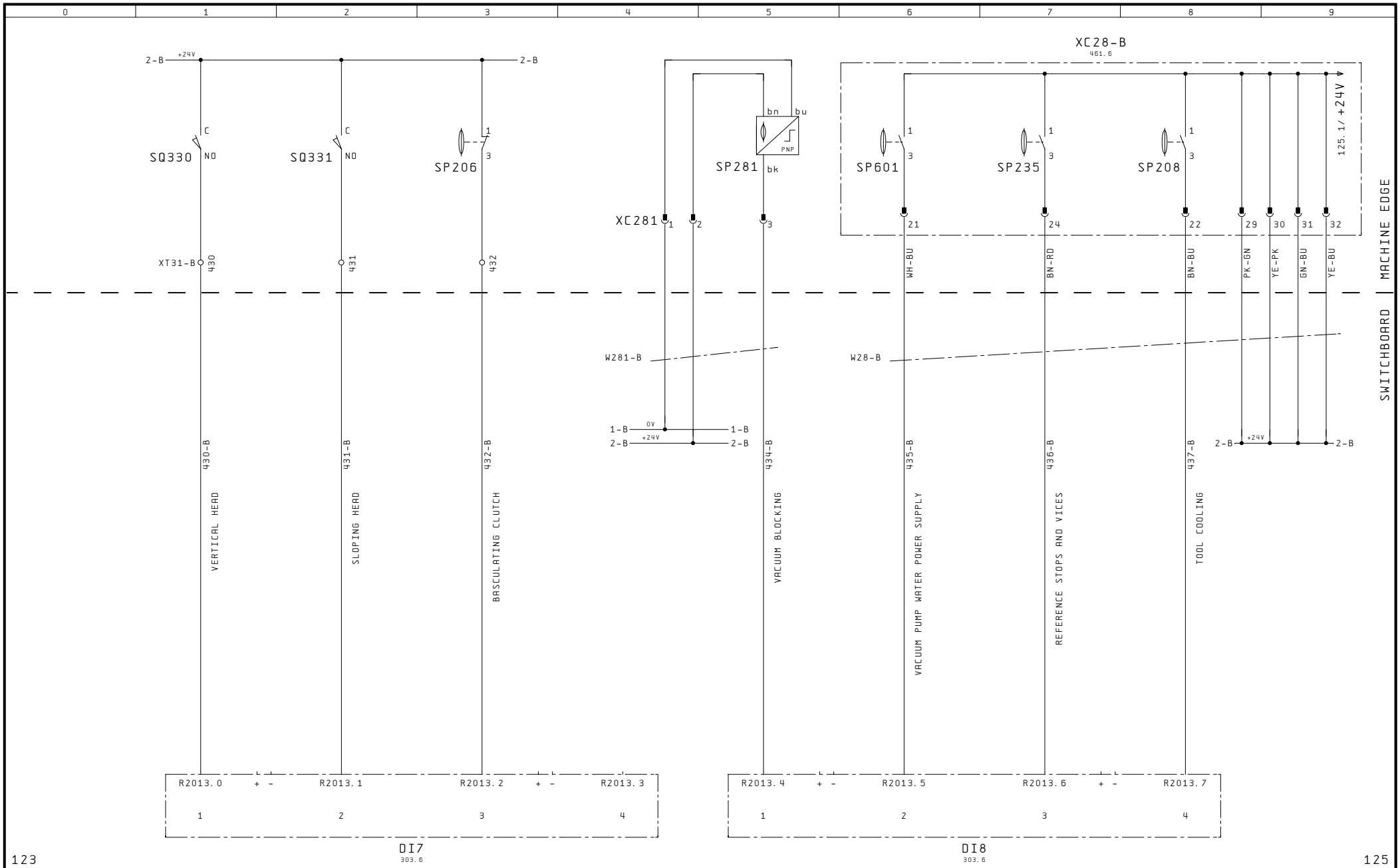
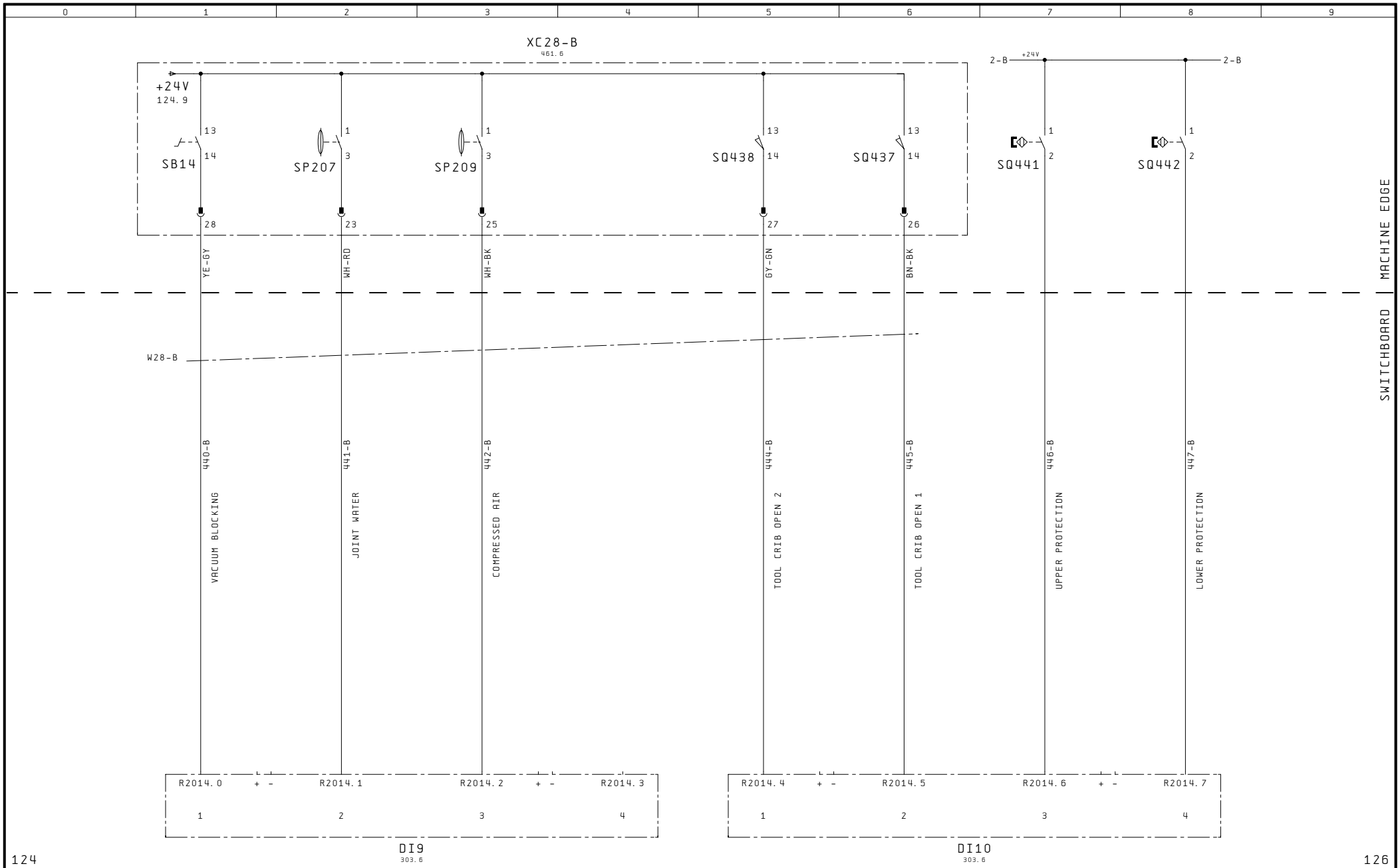
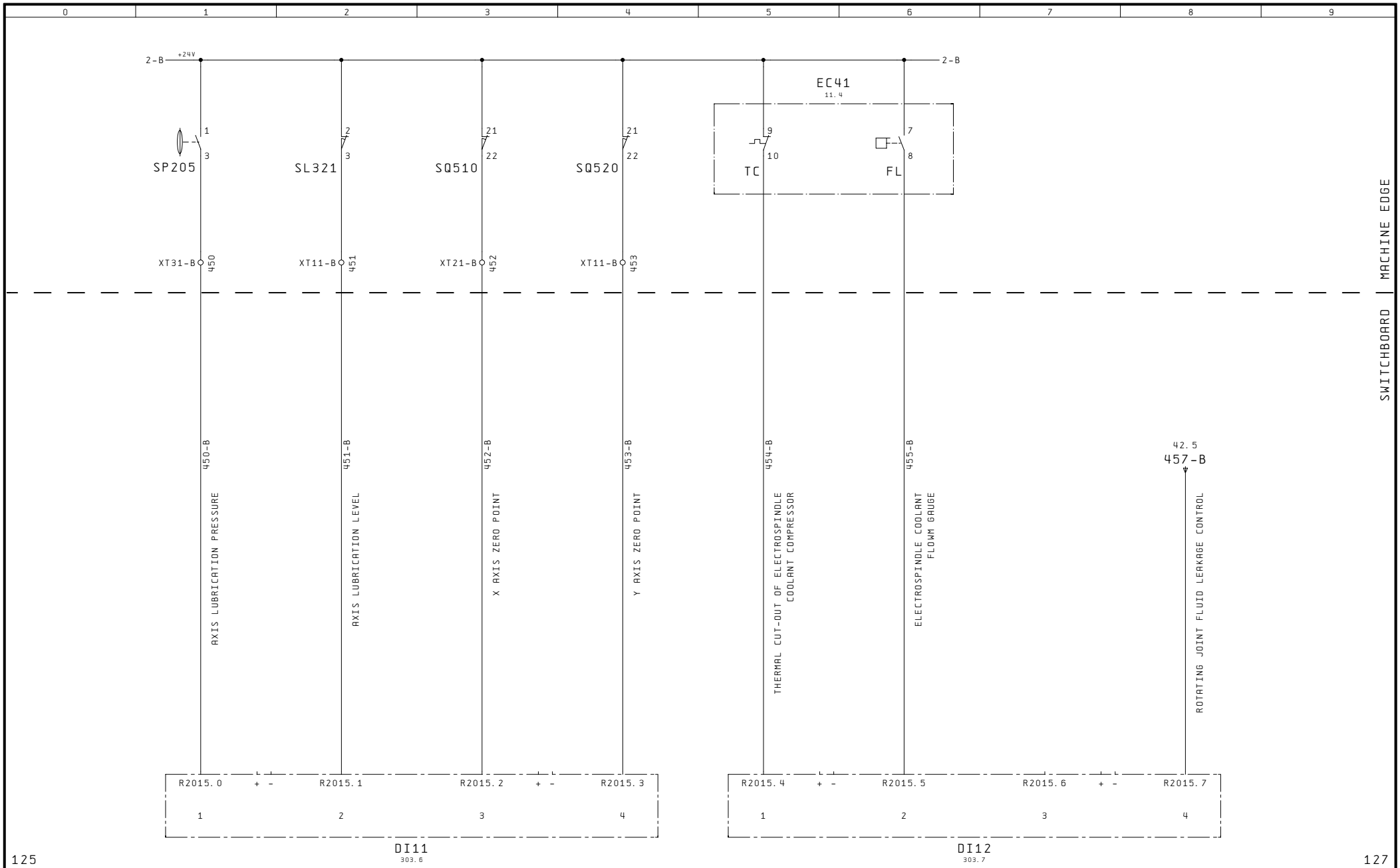
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 123



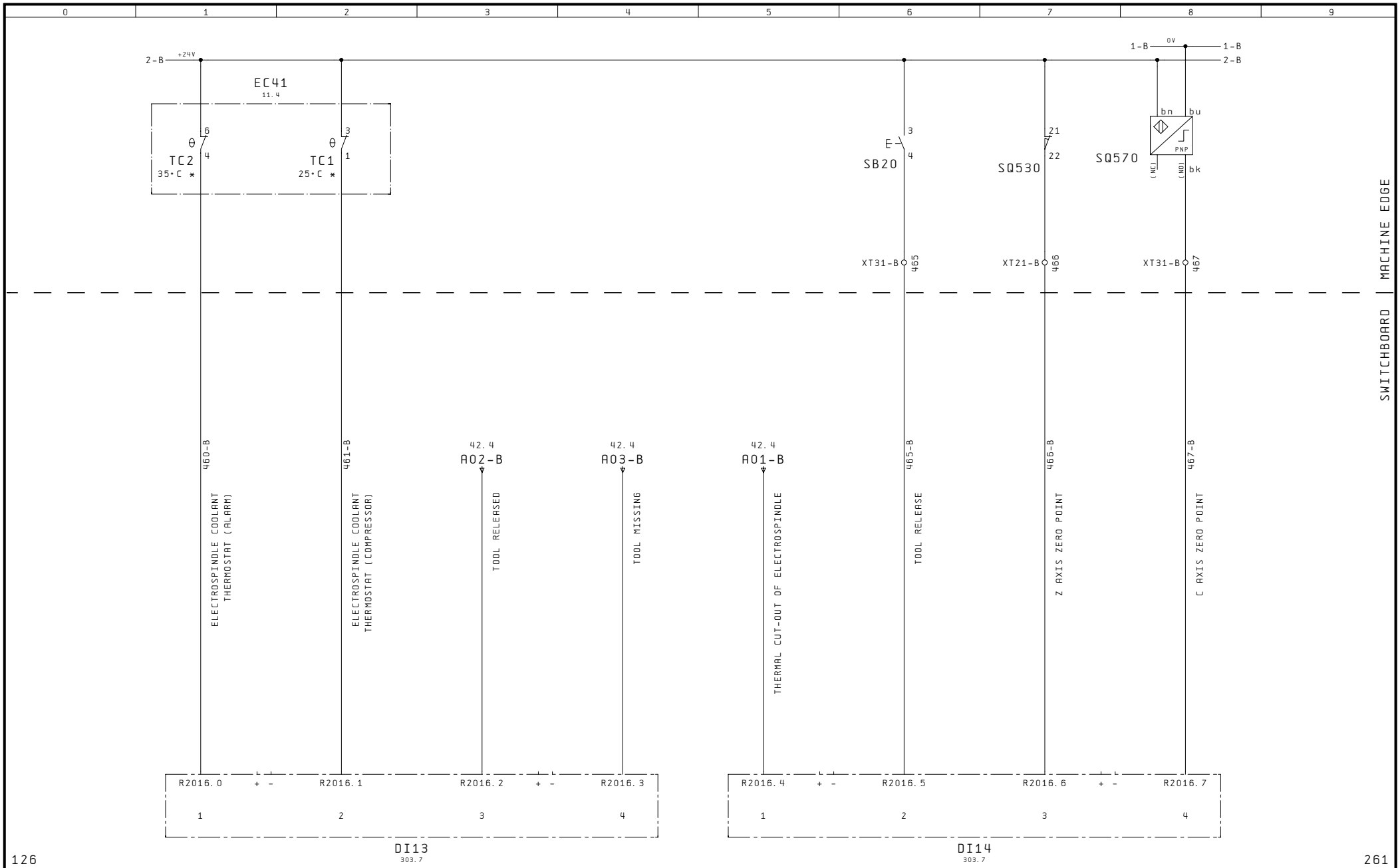
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 124



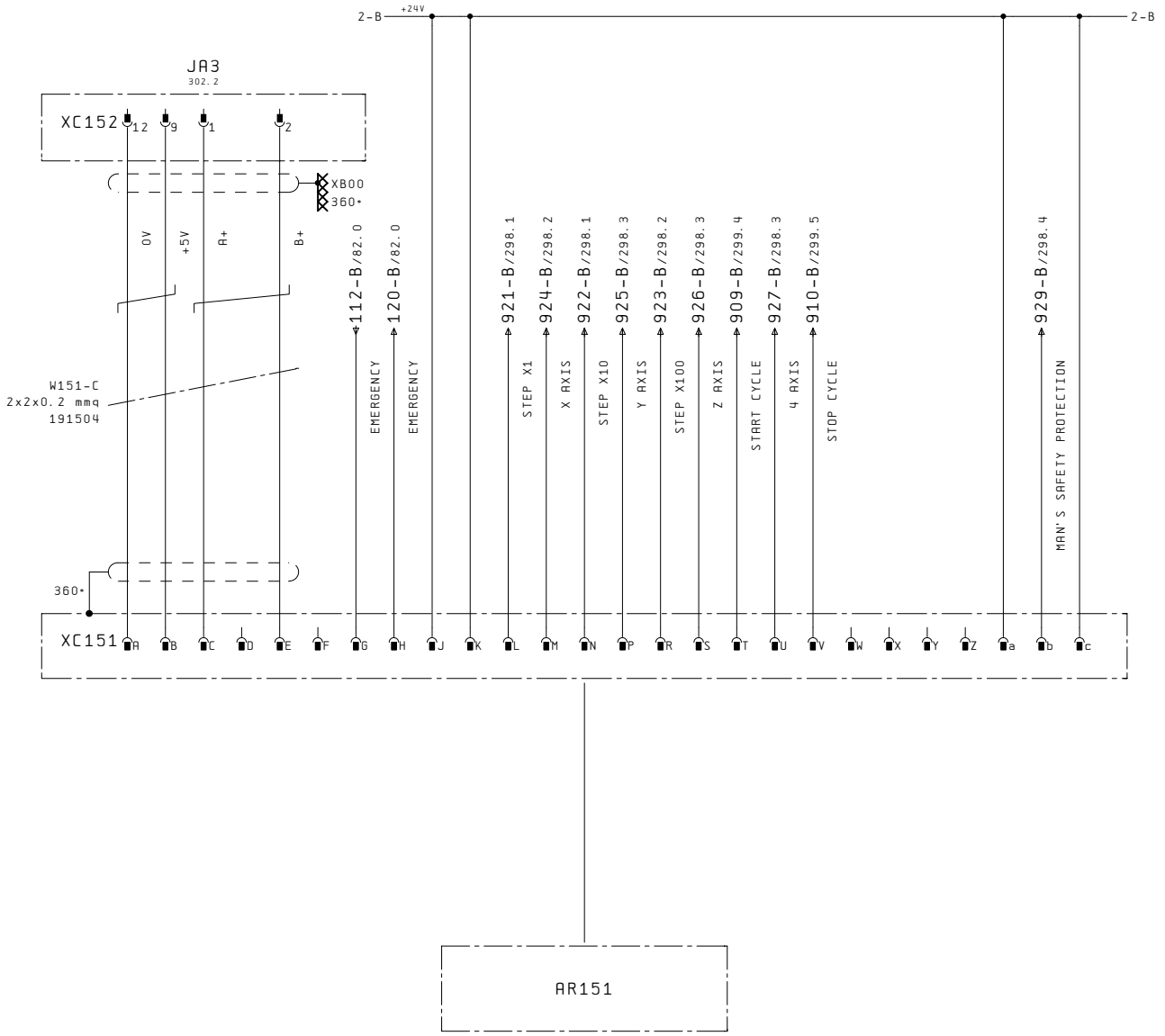
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 125



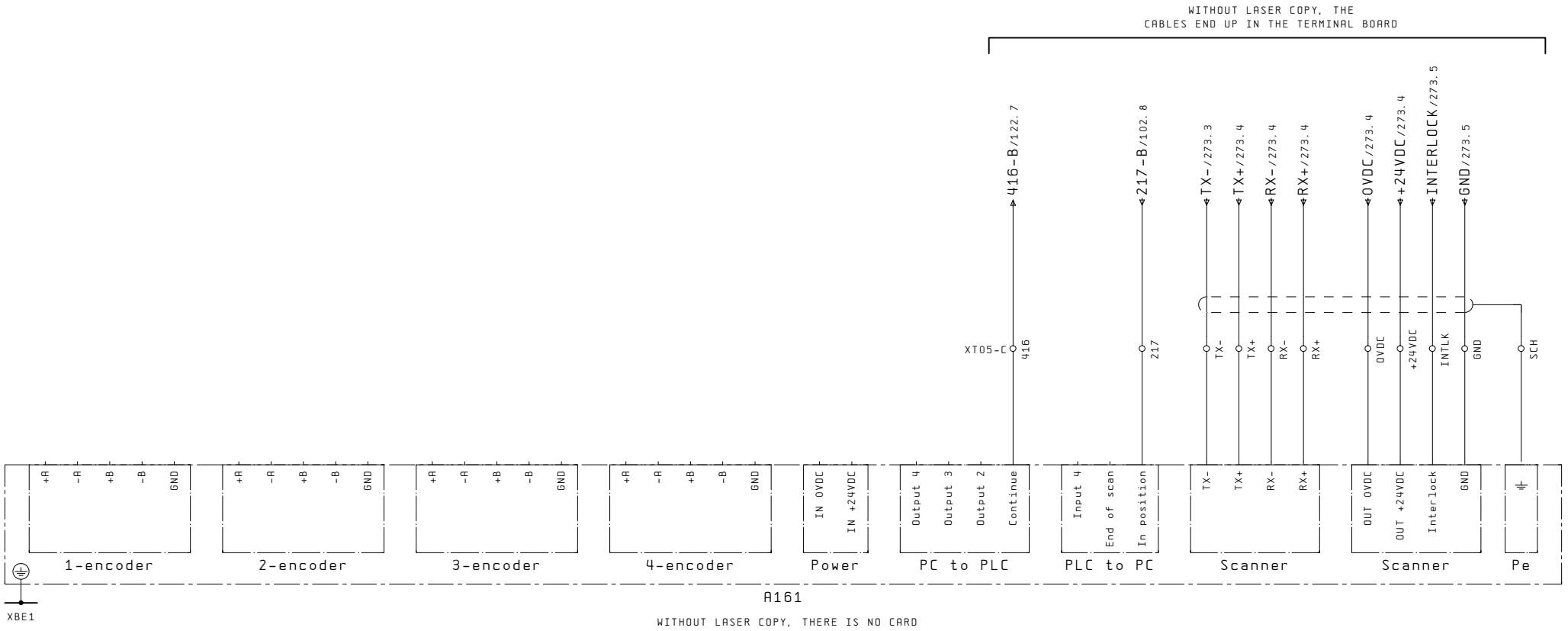
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 126



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INLET MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 127

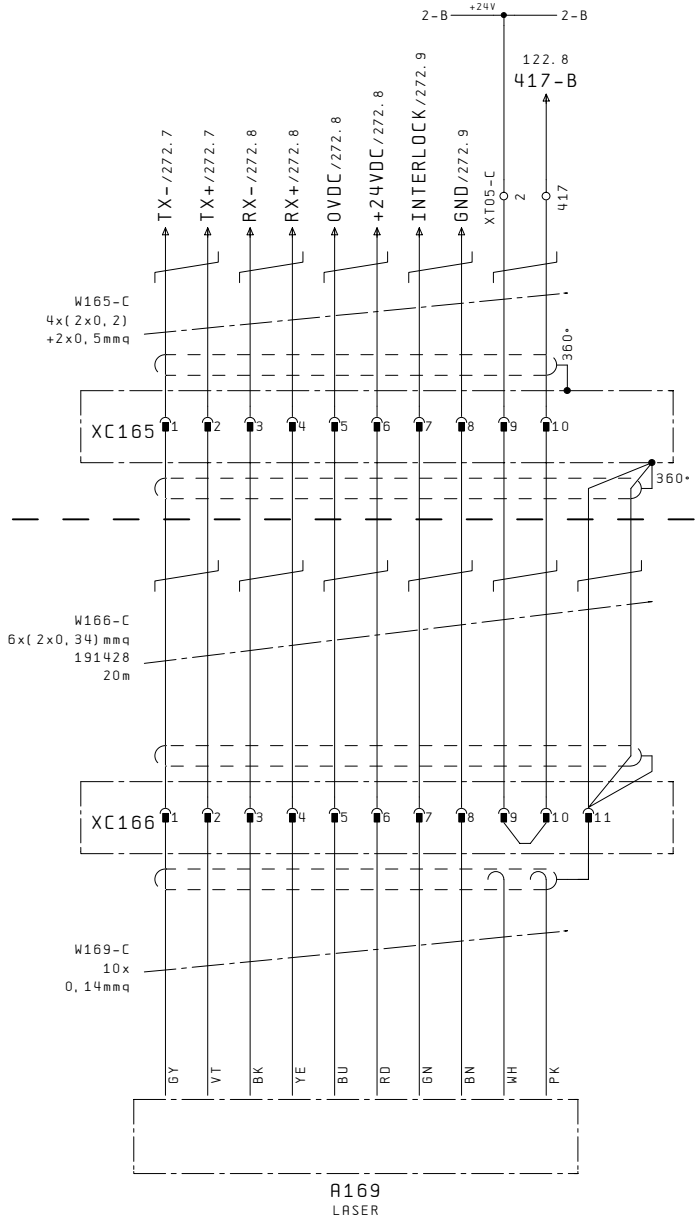


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HANDWHEEL	CMS3085SEL
Designer	BRN				NC-MAXIMA Pg. 261
Plot	21.10.02				



261 273

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	LASER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 272

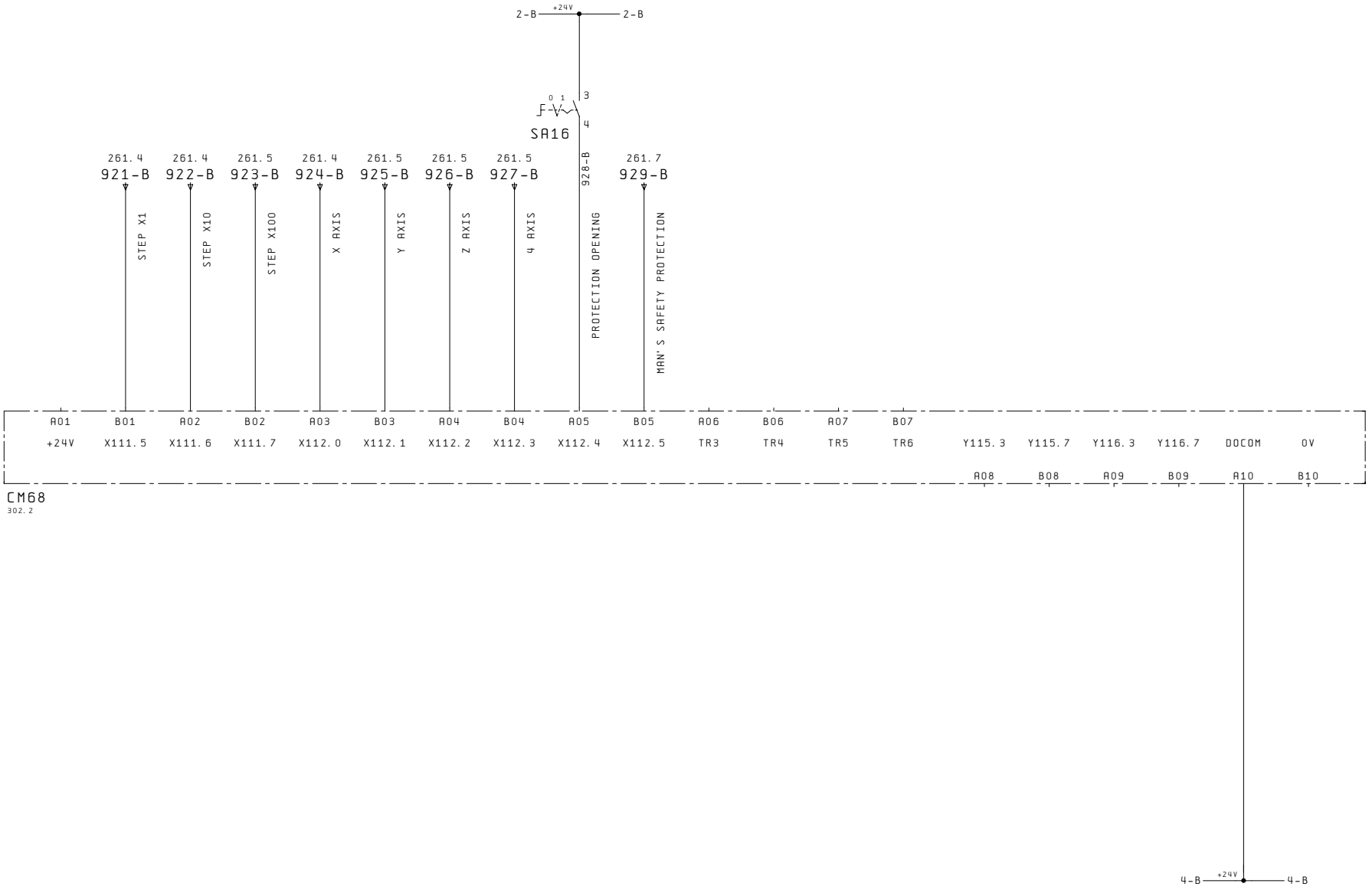


MACHINE EDGE | SWITCHBOARD

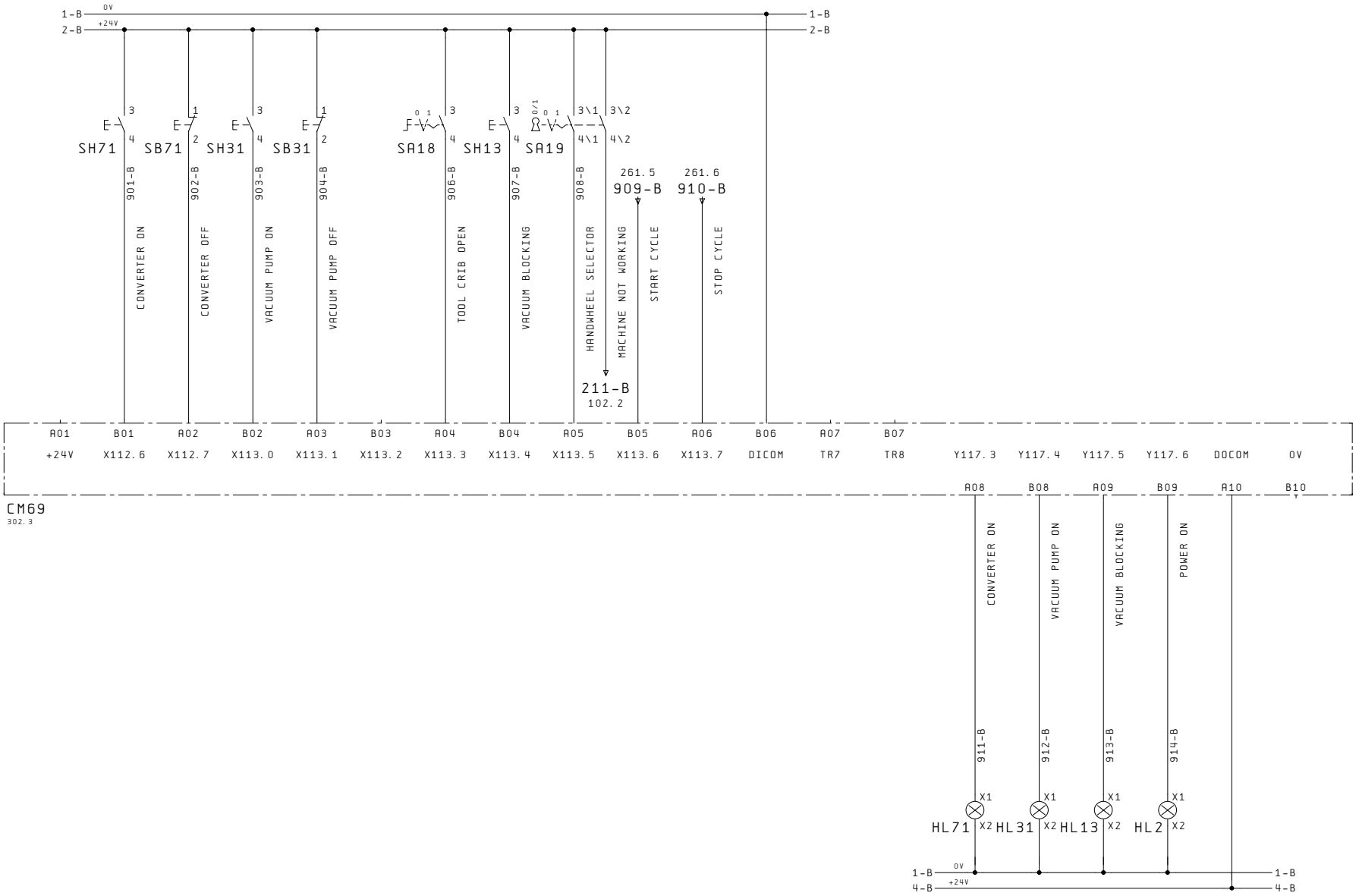
272

298

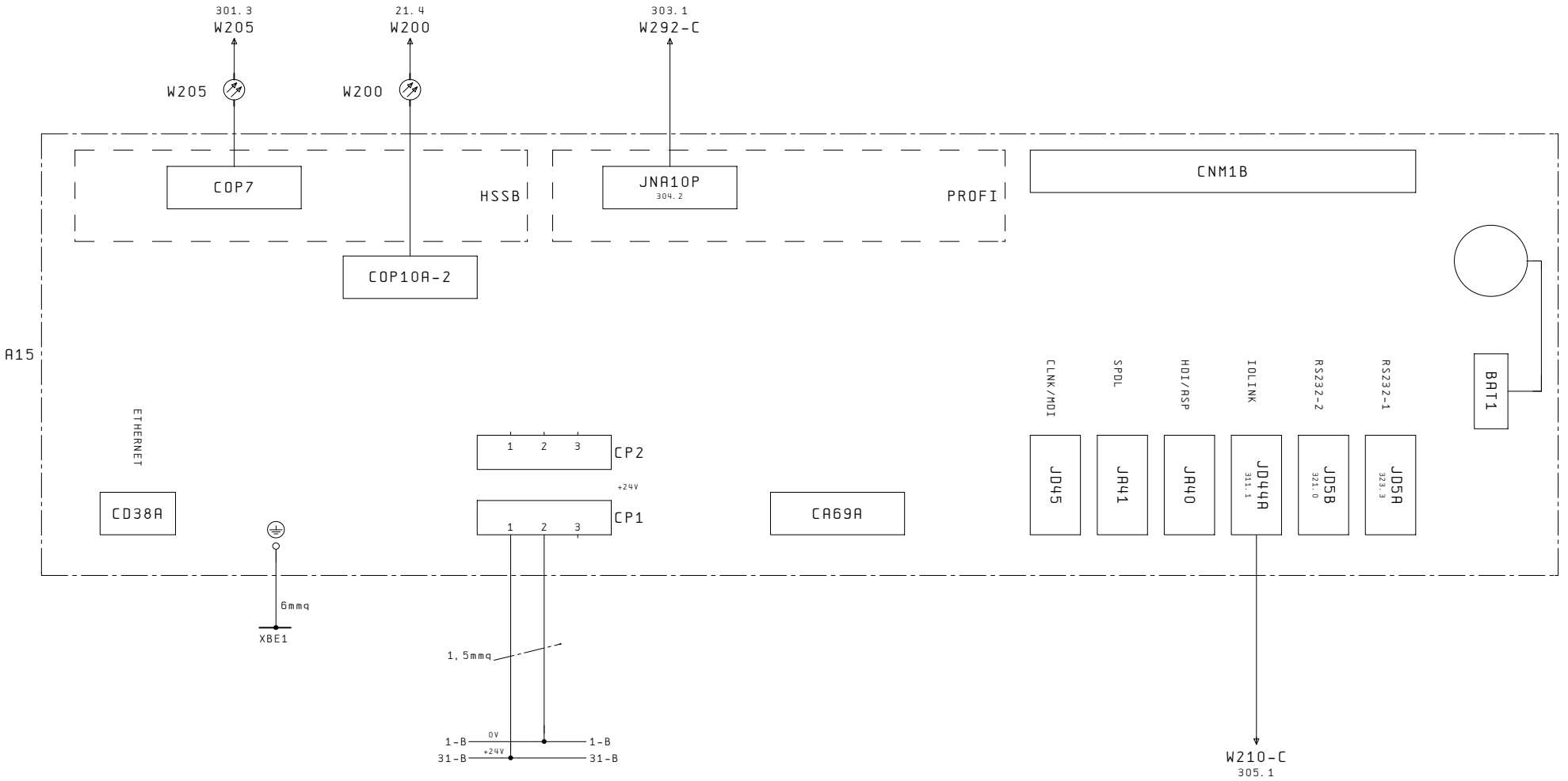
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	LASER	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 273



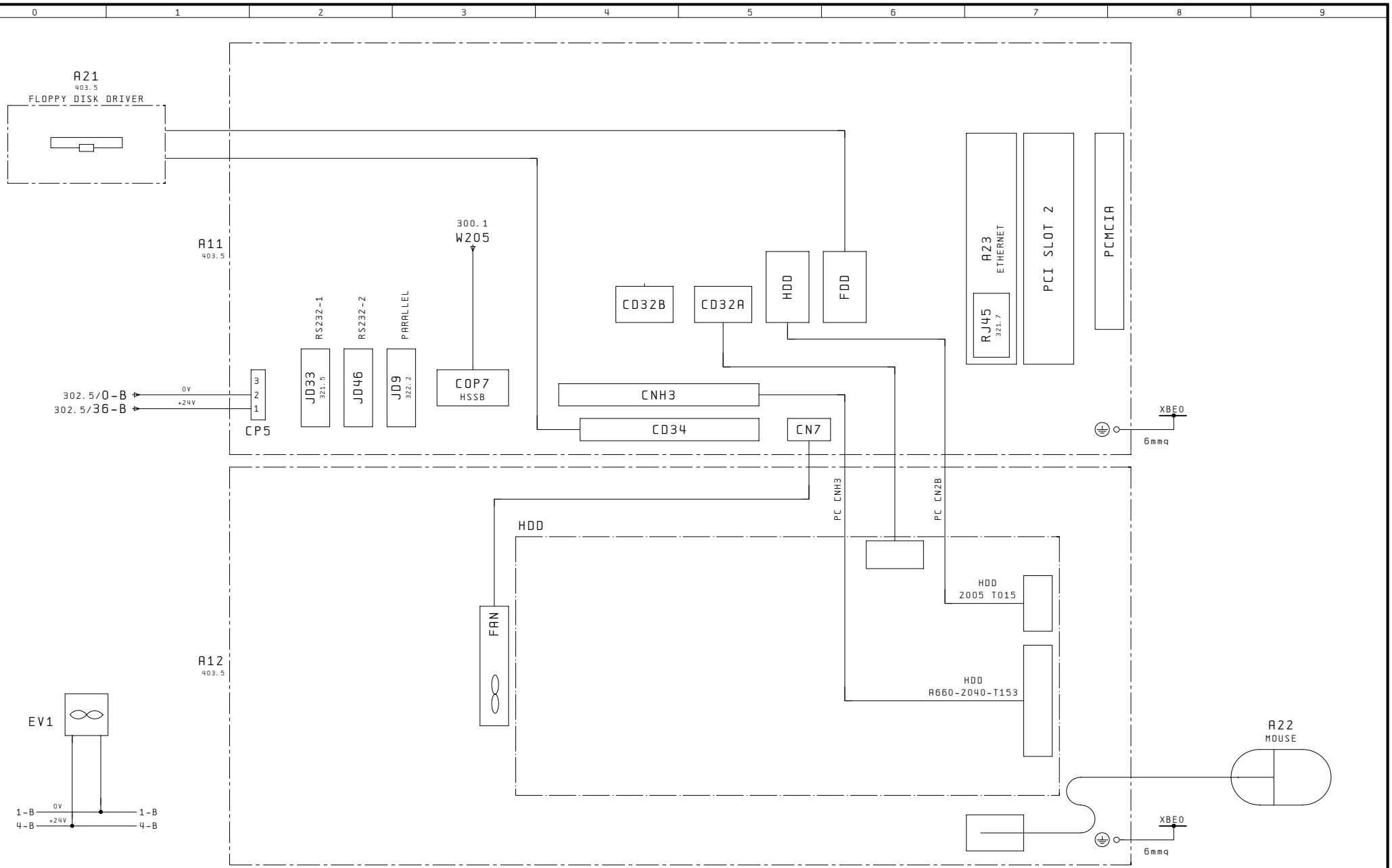
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONNECTIONS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 298



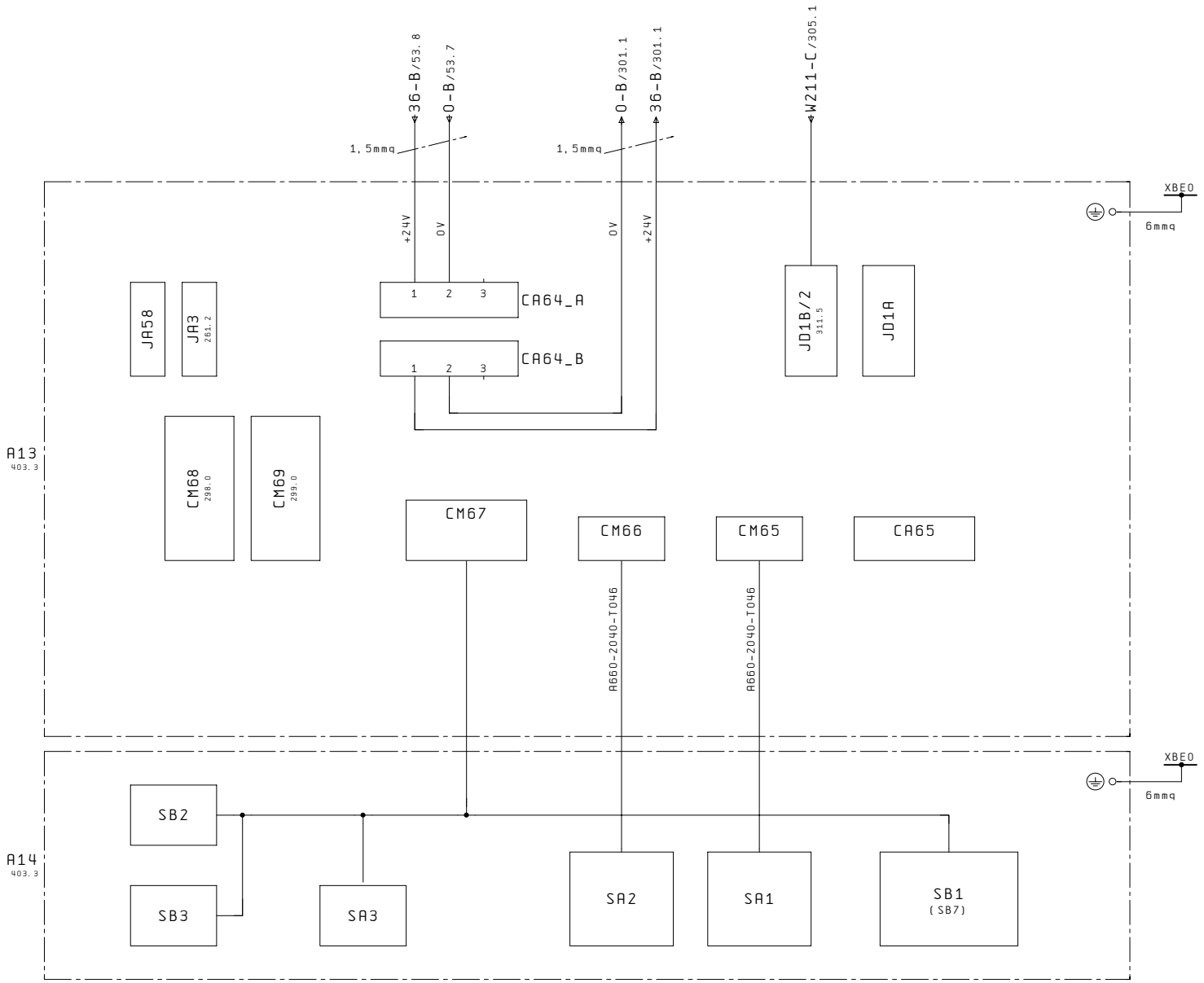
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONNECTIONS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 299



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONNECTION NUMERICAL CONTROL	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 300

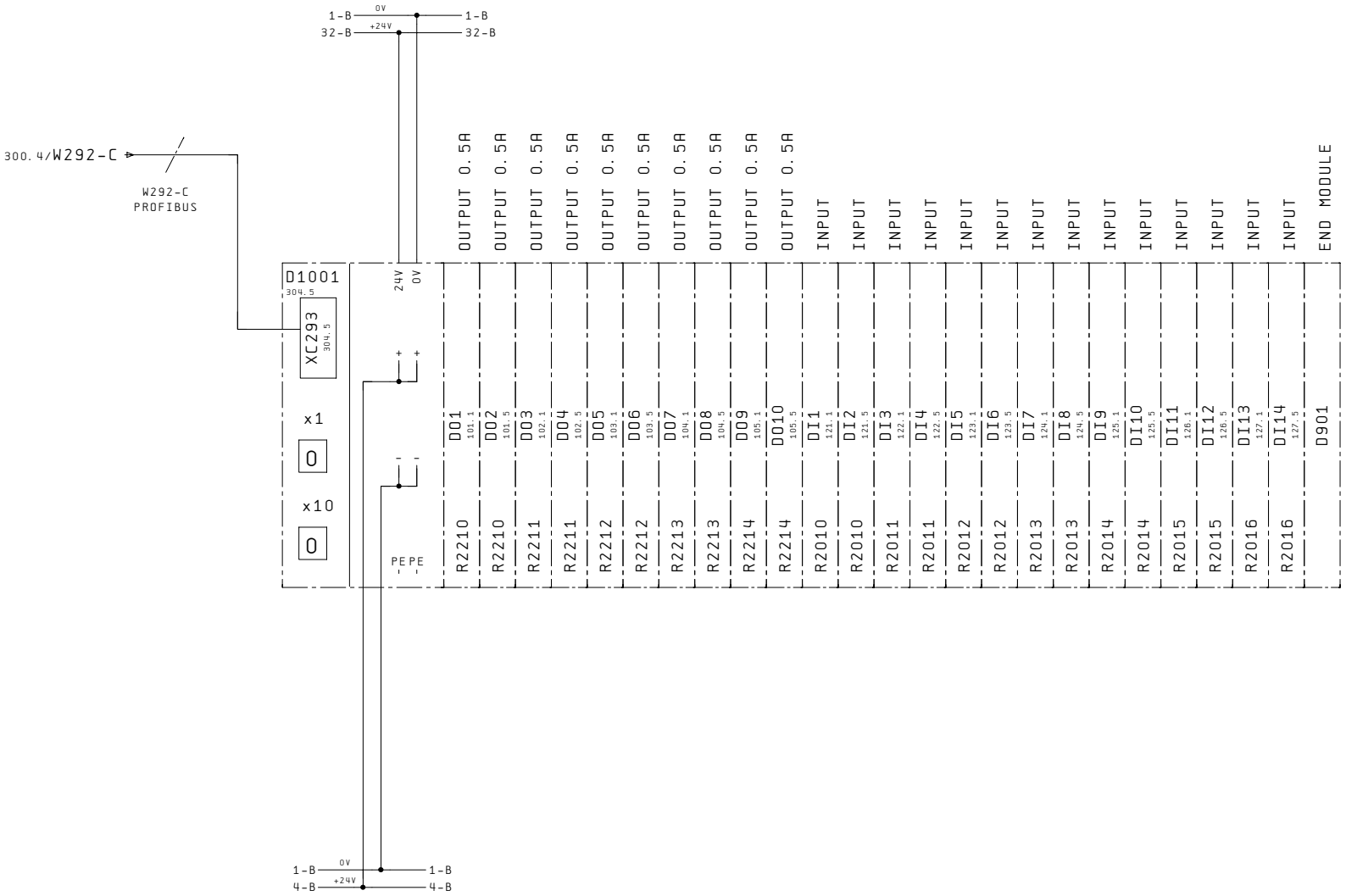


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	INTELLIGENT TERMINAL HARDWARE CONNECTIONS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 301



301 303

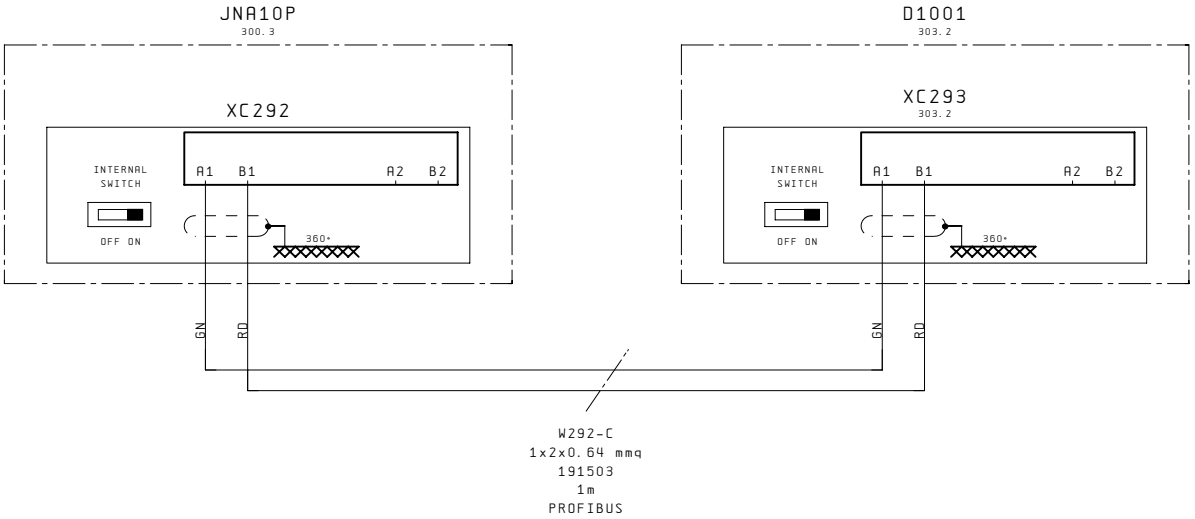
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONNECTION MAIN PANEL	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 302



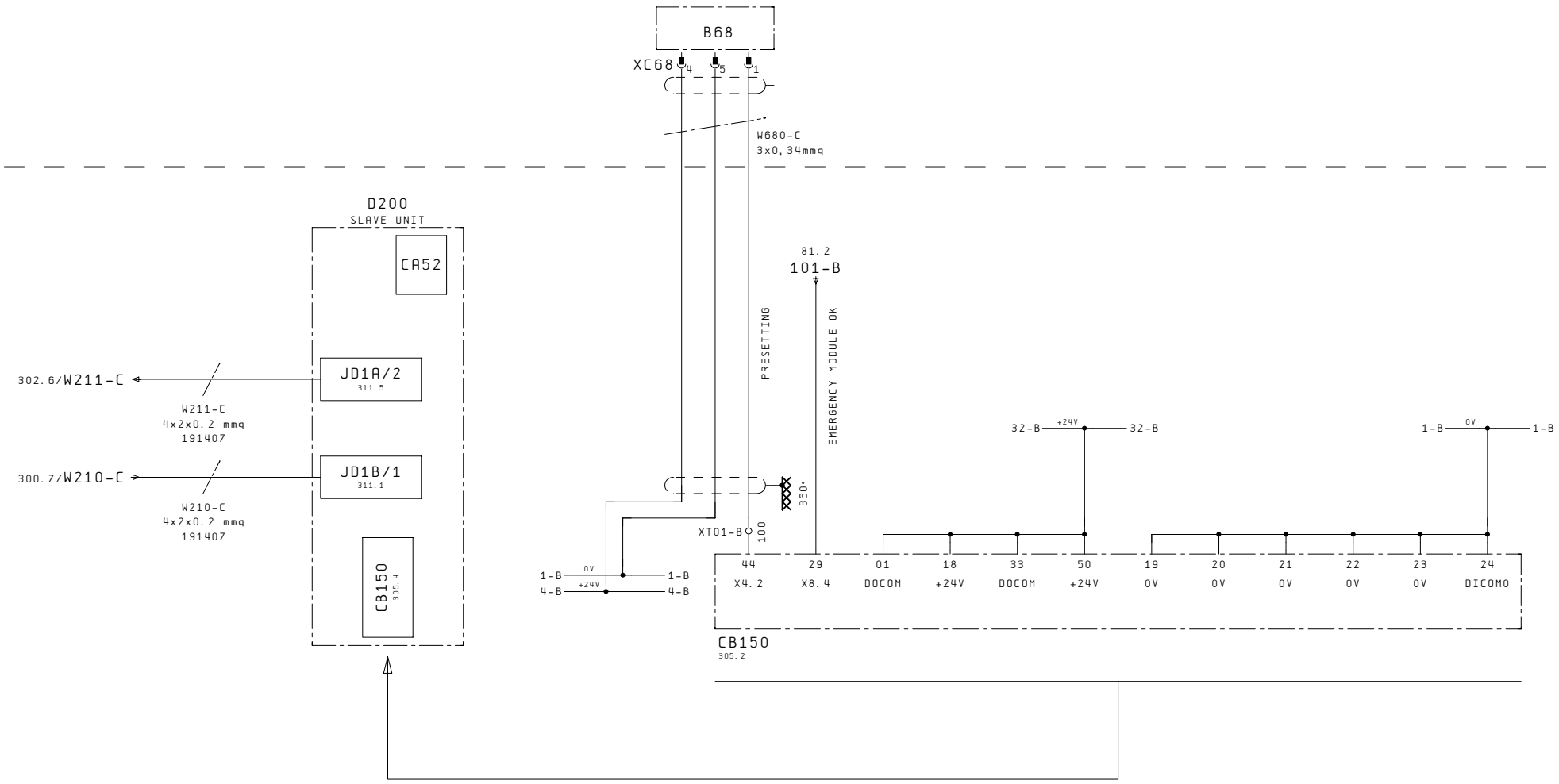
302

304

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONECTION I/O MODULES	CMS3085SEL NC-MAXIMA
Designer	BRN				Pg. 303
Plot	21.10.02				

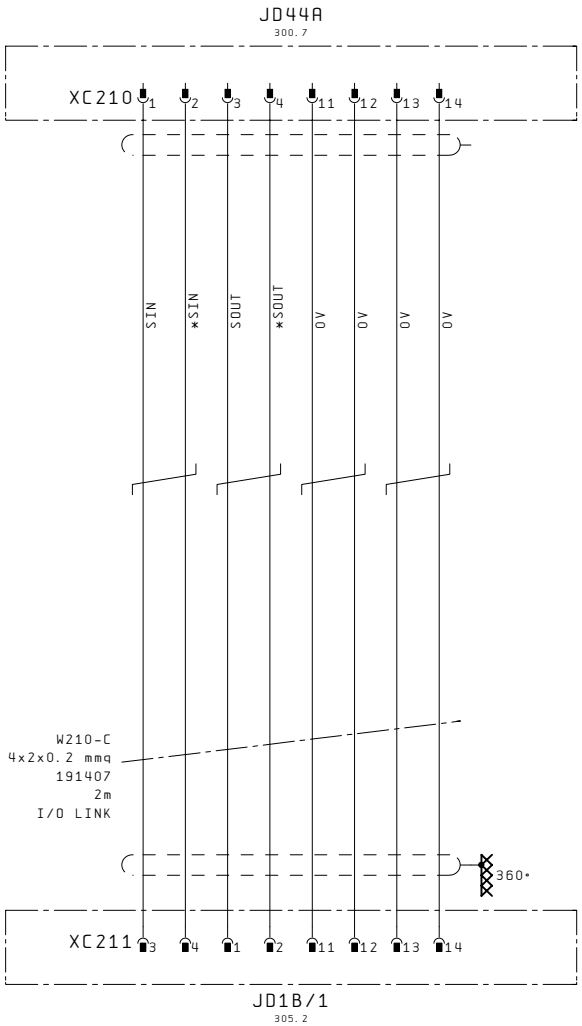


Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONECTION I/O MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 304



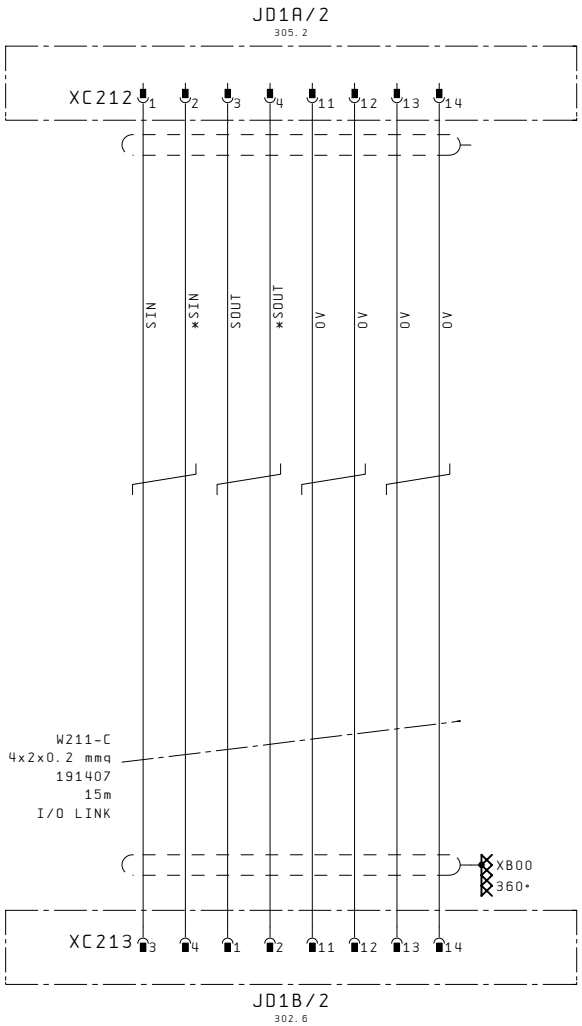
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	HARDWARE CONECTION I/O MODULES	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 305

CNC SIDE I/O LINK CABLE
CONNECTOR



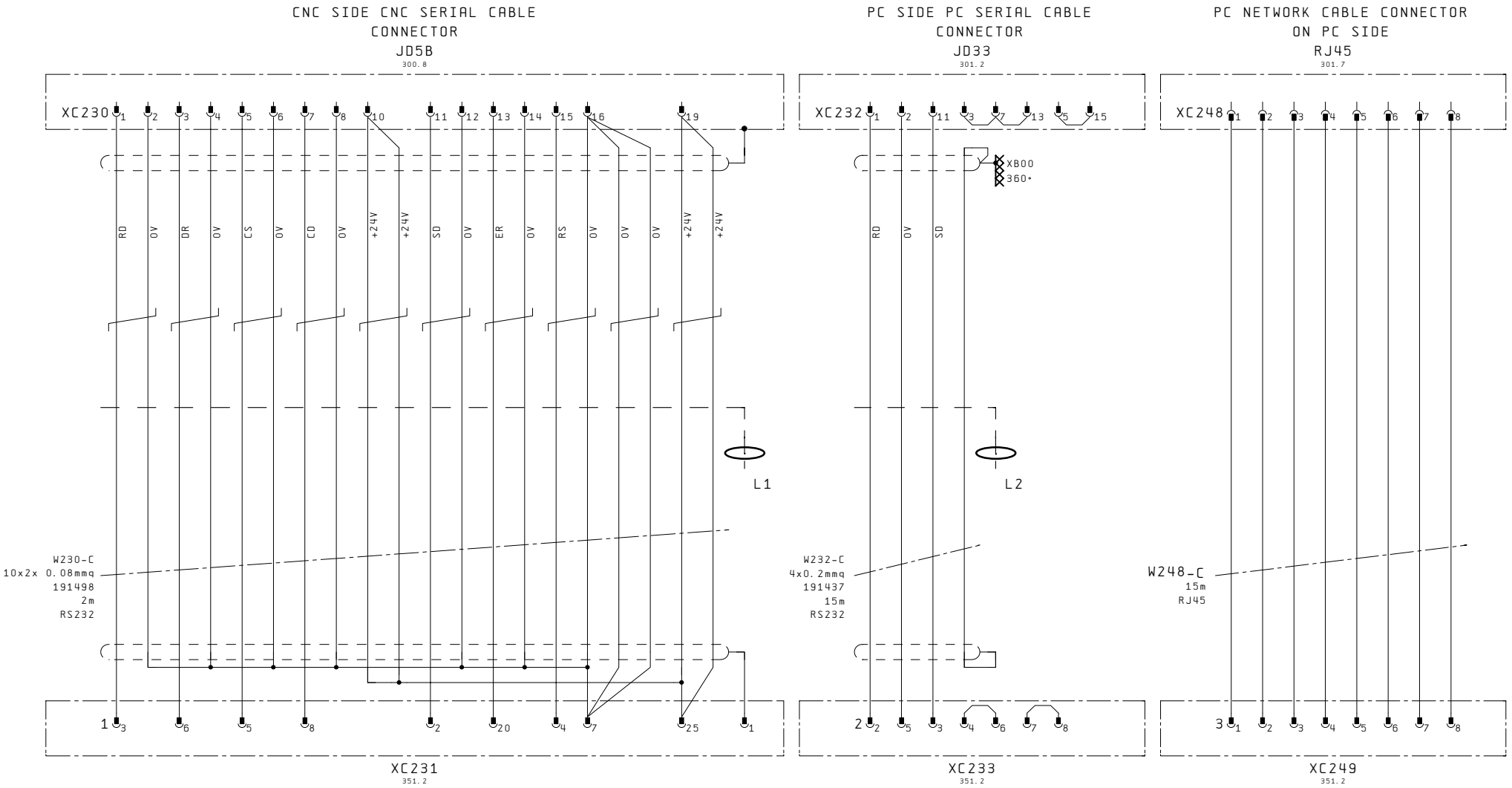
SLAVE UNIT SIDE I/O LINK
CABLE CONNECTOR

SLAVE UNIT SIDE I/O LINK
CABLE CONNECTOR



MAIN PANEL SIDE I/O LINK
CABLE CONNECTOR

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CABLE DESCRIPTION NUMERICAL CONTROL	CMS3085SEL
Designer	BRN				NC-MAXIMA Pg. 311
Plot	21.10.02				

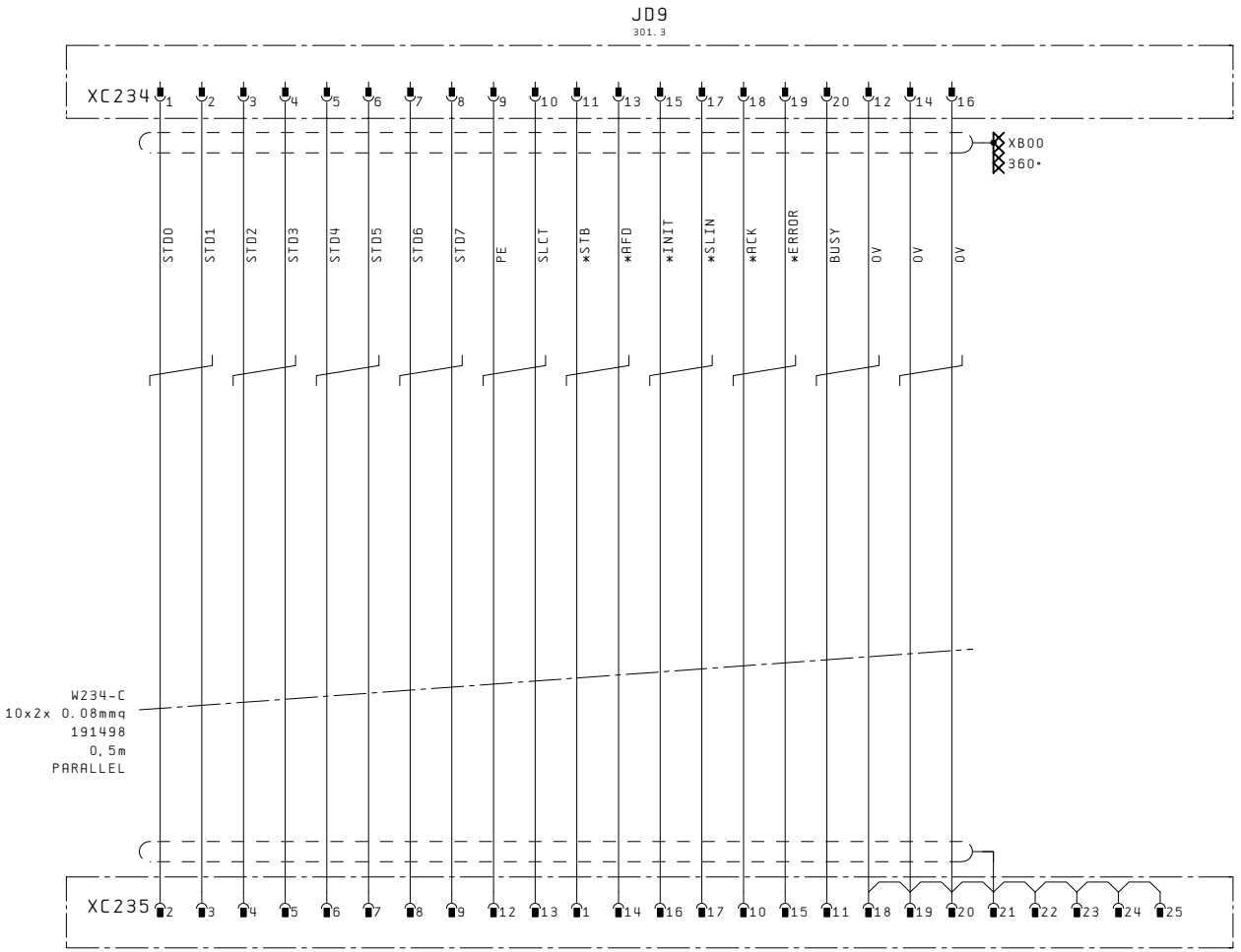


311

322

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CABLE DESCRIPTION NUMERICAL CONTROL	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 321

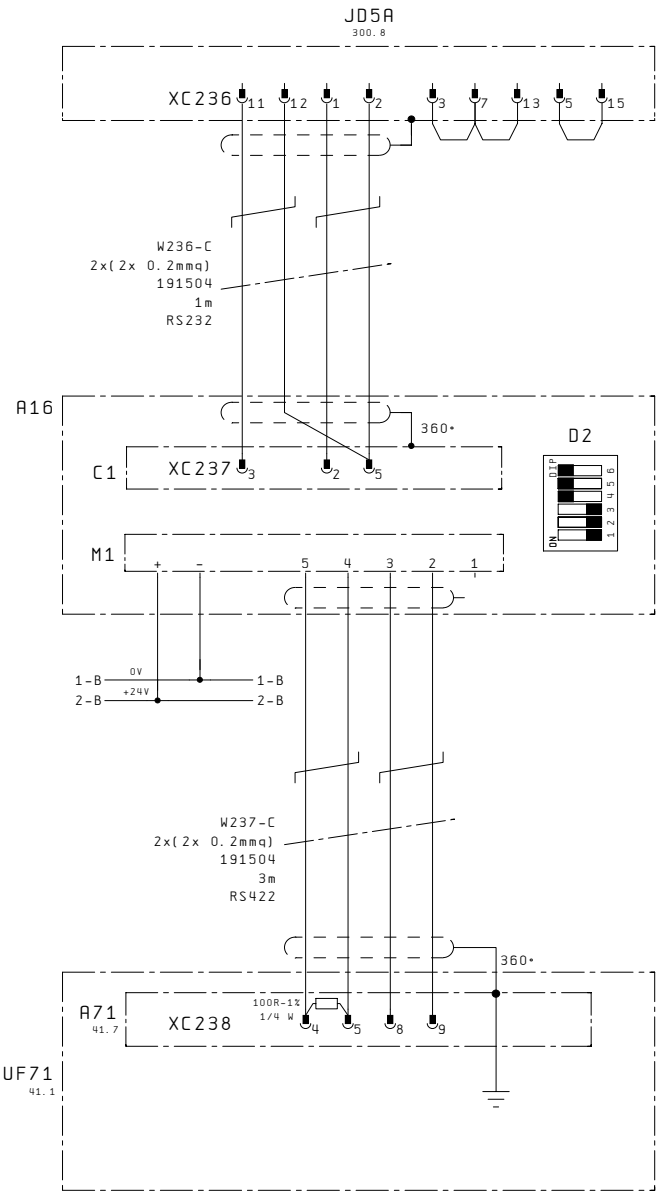
PC SIDE PC PARALLEL CABLE CONNECTOR



PC PARALLEL CABLE CONNECTOR

321 323

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CABLE DESCRIPTION NUMERICAL CONTROL	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 322



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SERIAL TRANSMISSION	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 323

AR9

XC231
321.0
1

XC233
321.5
2

XC249
321.7
3

XS1
51.3
230V - 2A

2,5mmq

XBE1

AR10
403.5

1

1

SH71
HL71
SB71

SH31
HL31
SB31

SA16

SA19

SA3

SH2
HL2

SB1

HL20

SA18

SH4
HL4

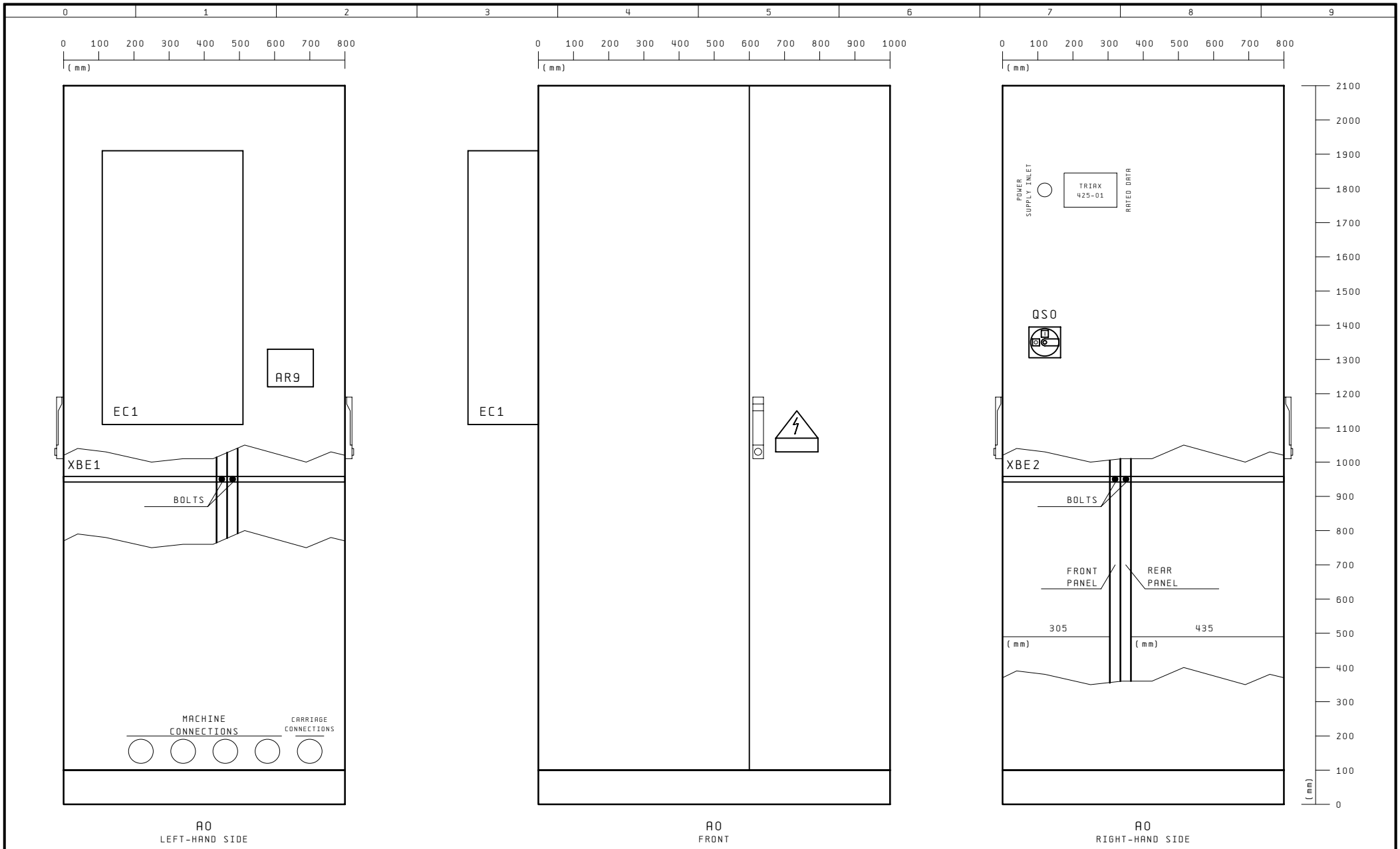
SH13
HL13

323

SWITCHBOARD | SCREEN CARRIAGE

401

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	PUSH-BUTTON PANELS AND OUTLETS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 351



351

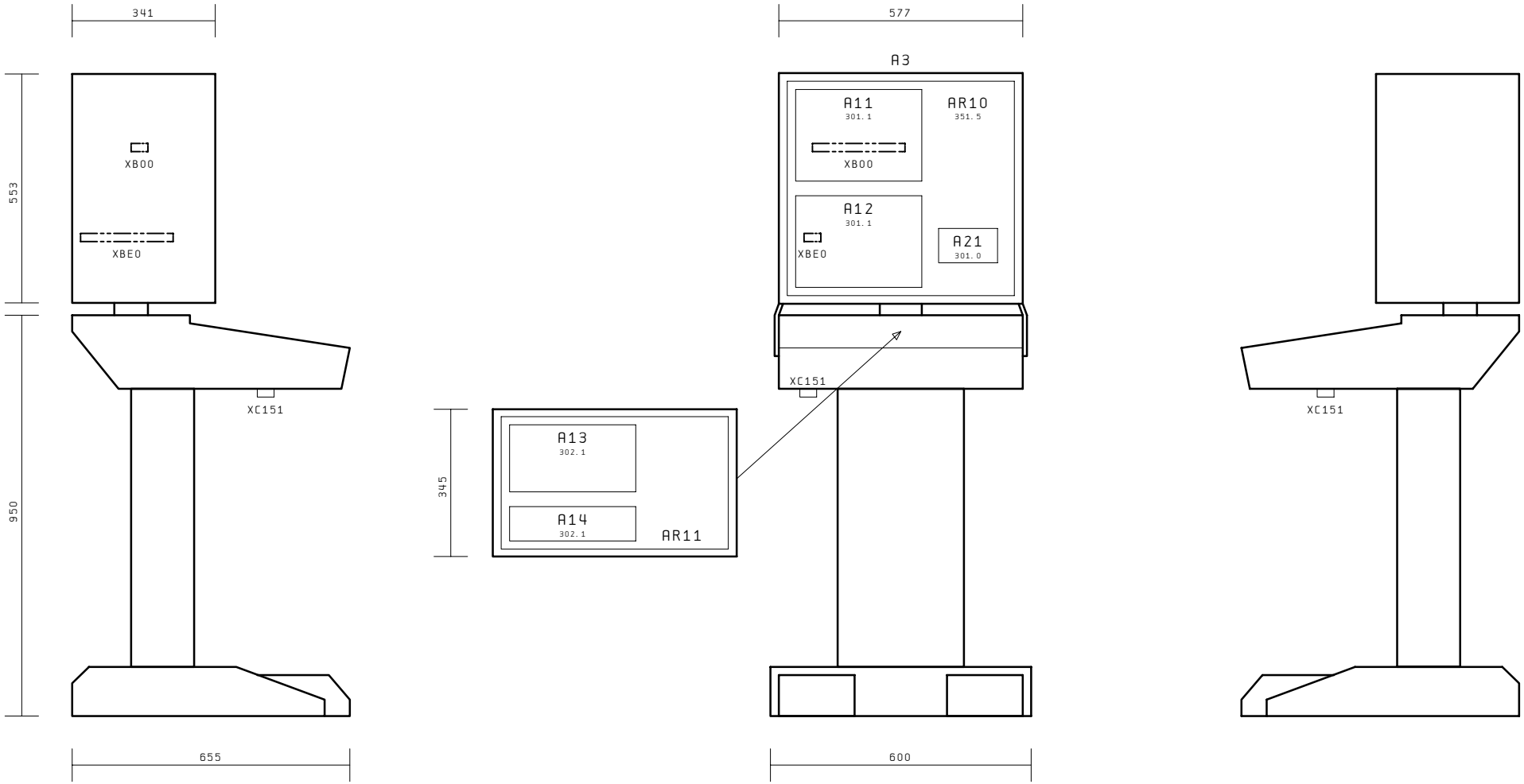
402

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SWITCHBOARD
Designer	BRN			CMS3085SEL
Plot	21.10.02			NC-MAXIMA
				Pg. 401

401

403

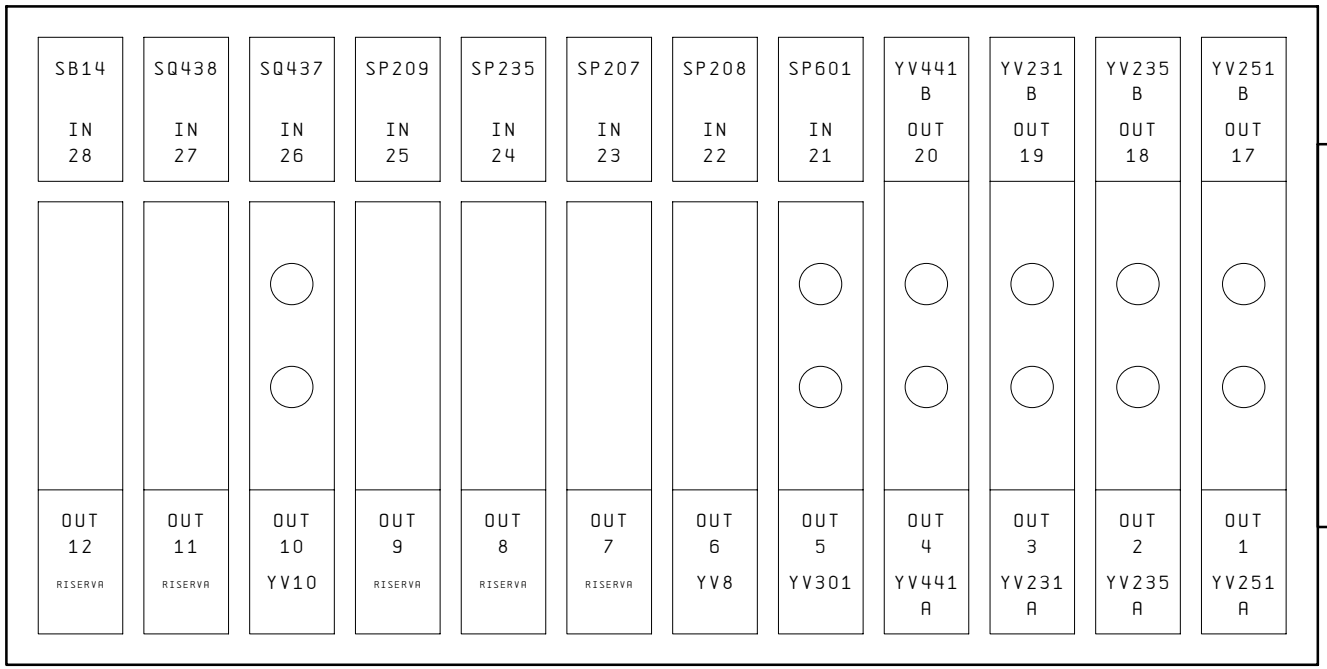
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	COMPONENT LAYOUT	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 402



402

461

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SCREEN CARRIAGE	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 403



XC28-B
102.1

WH	= 1	TOOL CRIB OPEN
BN	= 2	UPPER REFERENCE STOPS AND VICES
GN	= 3	HIGH RETRACTABLE SUCTION CUP
YE	= 4	UPPER PROTECTION
GY	= 5	VACUUM PUMP WATER POWER SUPPLY
PK	= 6	VACUUM BLOCKING
BU	= 7	SPARE
RD	= 8	SPARE
BK	= 9	SPARE
VT	=10	SUCTION CUP BLOWER
GY-PK	=11	SPARE
RD-BU	=12	SPARE
WH-GN	=13	DISCONNECTED
BN-GN	=14	DISCONNECTED
WH-YE	=15	DISCONNECTED
YE-BN	=16	DISCONNECTED
WH-GY	=17	TOOL CRIB CLOSED
GY-BN	=18	LOWER REFERENCE STOPS AND VICES
WH-PK	=19	LOW RETRACTABLE SUCTION CUP
PK-BN	=20	LOWER PROTECTION
WH-BU	=21	VACUUM PUMP WATER POWER SUPPLY
BN-BU	=22	TOOL COOLING
WH-RD	=23	JOINT WATER
BN-RD	=24	REFERENCE STOPS AND VICES
WH-BK	=25	COMPRESSED AIR
BN-BK	=26	TOOL CRIB OPEN 1
GY-GN	=27	TOOL CRIB OPEN 2
YE-GY	=28	VACUUM BLOCKING
PK-GN	=29	+24V
YE-PK	=30	+24V
GN-BU	=31	+24V
YE-BU	=32	+24V
GN-RD	=33	0V
YE-RD	=34	0V
GN-BK	=35	0V
YE-BK	=36	0V
GY-BU	=37	0V

403

701

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	SOLENOID VALVE BATTERY	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 461

Changes	21.10.02
Designer	
Plot	21.10.02

Notes

461

TERMINAL STRIP XT01-B

FUNCTION	FROM:	TERMINAL N^	Bond	TO:	PAGE/ COLUMN
Z AXIS BRAKE	1-B	N501		XT21-B	24.1
Z AXIS BRAKE	KA50	L501		XT21-B	24.2
PC POWER SUPPLY	M	0		CA64_A	53.7
PC POWER SUPPLY	FA36	36		CA64_A	53.8
0V		1		XT31-B	52.0
0V		1		XT31-B	52.1
0V		1		XT21-B	52.1
0V	GS2	1		XT11-B	52.1
+24V	FA2	2		XT11-B	52.1
+24V		2		XT21-B	52.2
+24V		2		XT31-B	52.2
+24V		2		XT31-B	52.2
OUTLET POWER SUPPLY	FA4	4			52.5
LASER POWER SUPPLY	FA11	11			52.7
CNC POWER SUPPLY	FA31	31			52.8
I/O MODULES POWER SUPPLY	FA32	32			52.9
POWER SUPPLY 24V CONVERTER	Z71	71		14	41.5
PRESETTING	CB150	100		XC68	305.4
EMERGENCY PUSH-BUTTONS	A31	111		SB7	82.1
EMERGENCY PUSH-BUTTONS	DI2	120		XC151	82.2
AXIS EXTRASTROKE	SB1	120		XT21-B	82.3
AXIS EXTRASTROKE		122		XT21-B	82.4
AXIS EXTRASTROKE		122		XT11-B	82.5
AXIS EXTRASTROKE	DI2	130		XT11-B	82.6
EMERGENCY DOOR	SB1	130		SQ439	82.7
SAFETY GUARDS	A41	140		SQ439	82.9
POWER ON	A31	151		SH2	81.3
POWER ON	KM1	153		SA3	81.3
RECEIVER	A41	181		A51	84.1
RECEIVER	A41	182		A51	84.1
RECEIVER	A41	183		A51	84.2
PROJECTOR	A41	184		A61	84.2
BARRIER ACTIVATION	A41	185		SH4	84.7
BARRIER ACTIVATION	A41	186		SH4	84.7
BARRIER ACTIVATED	A41	187		HL4	84.8
MACHINE NOT WORKING	SA19	211		KA5	102.2

CMS1005

C.M.S. S.P.A.
ZOGNO (BG) ITALY

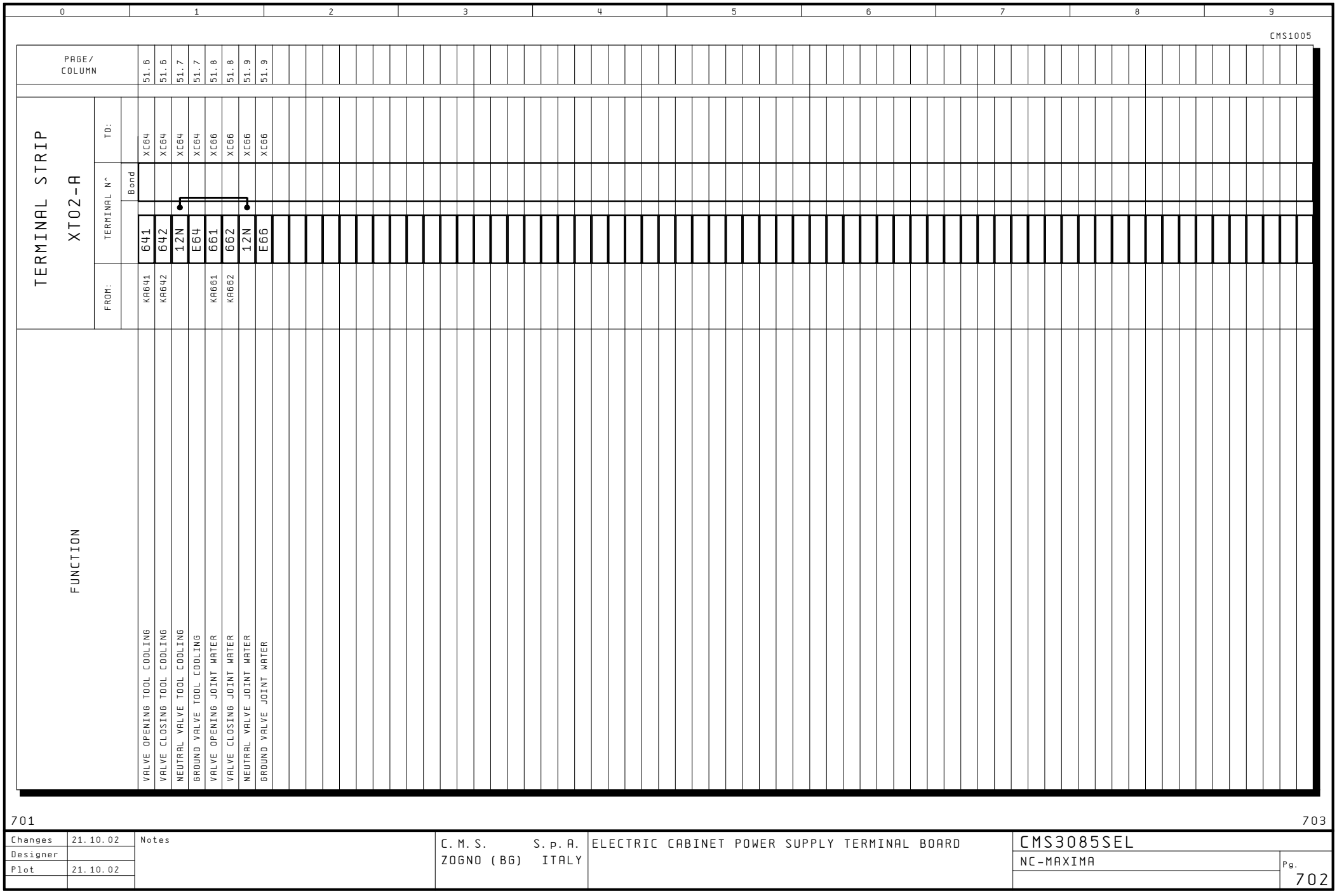
ELECTRIC CABINET SIGNAL TERMINAL BOARD

CMS3085SEL
NC-MAXIMA

Pg. 701

702

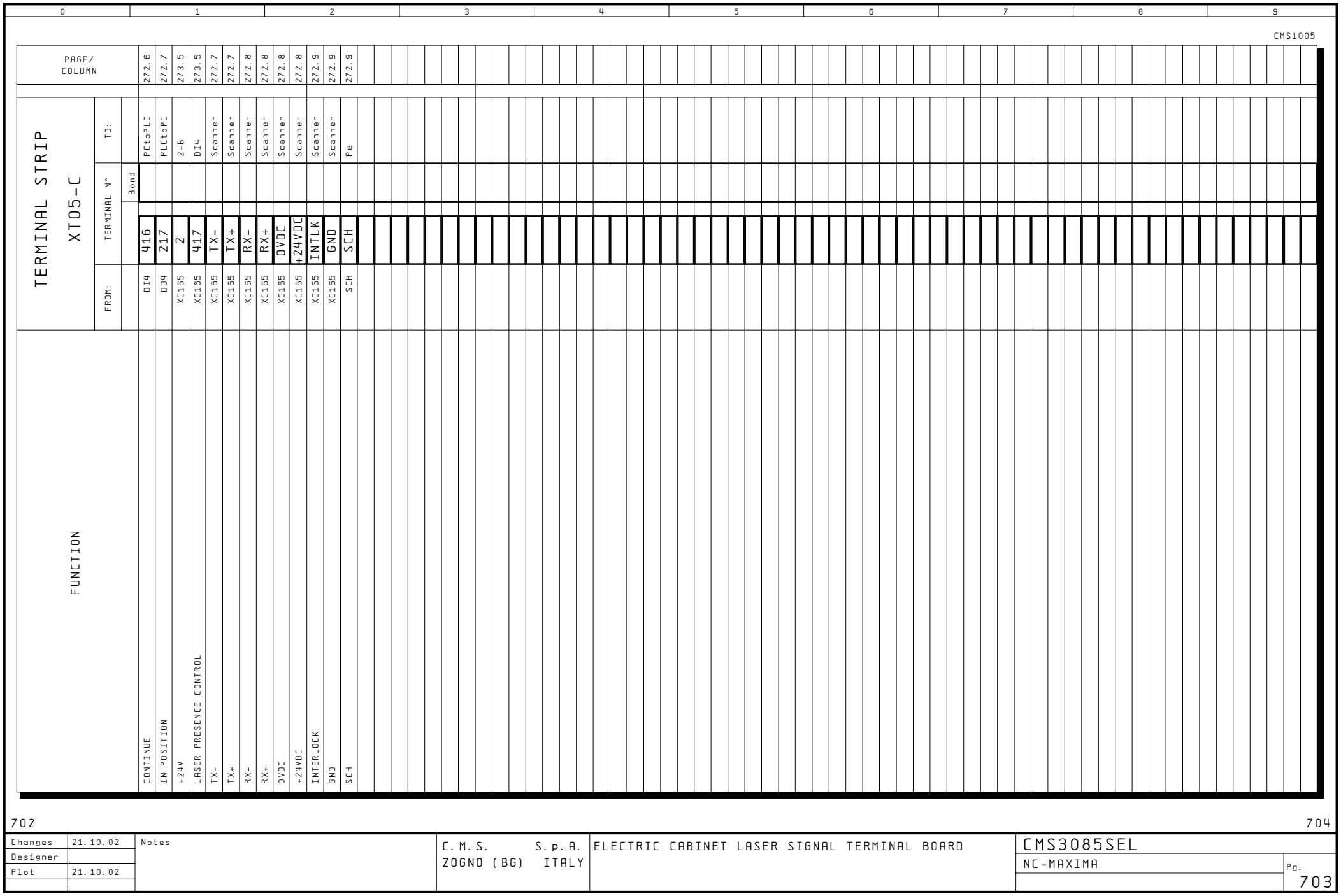
0 1 2 3 4 5 6 7 8 9



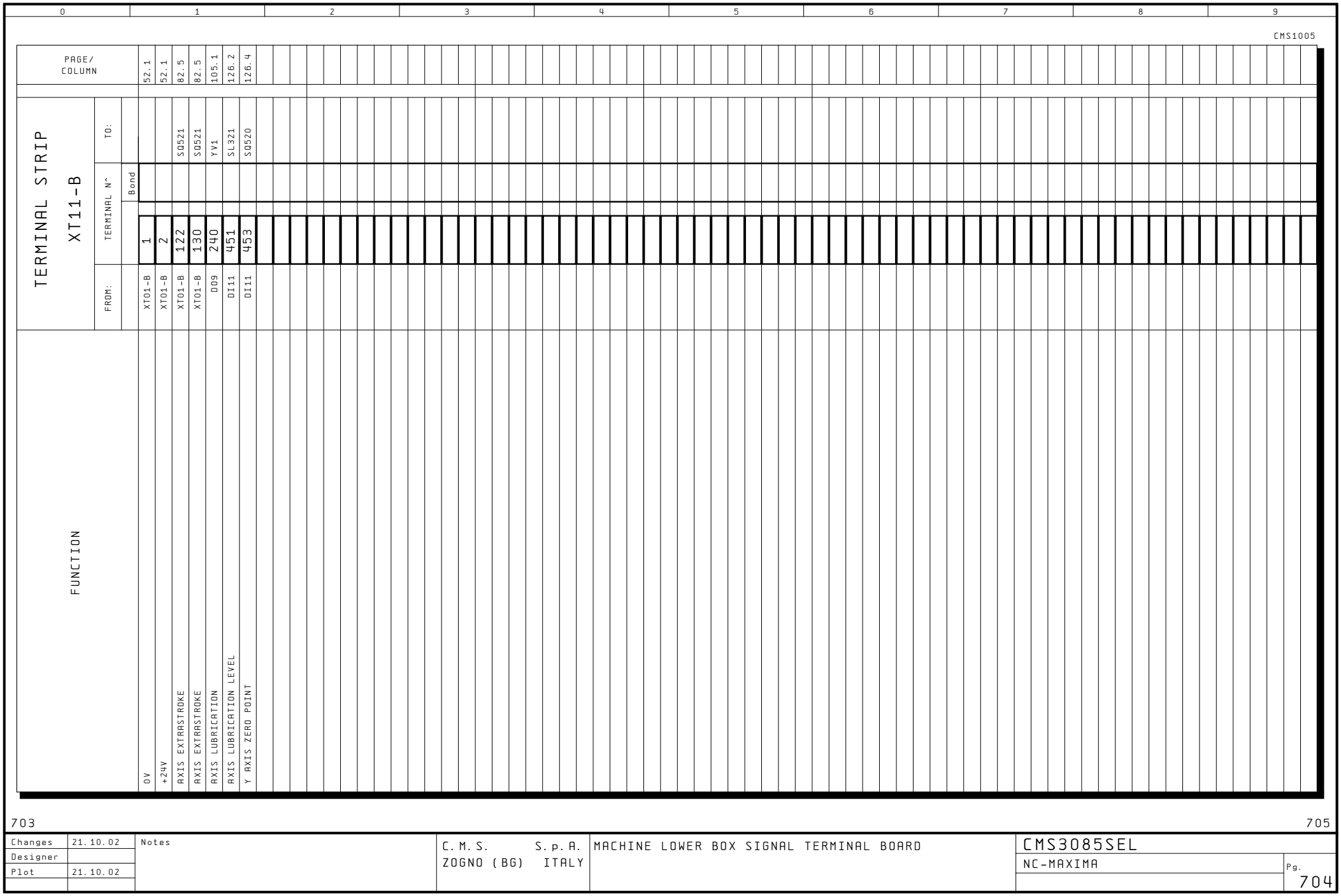
701

703

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	ELECTRIC CABINET POWER SUPPLY TERMINAL BOARD	CMS3085SEL
Designer					NC-MAXIMA
Plot	21.10.02				Pg. 702



Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	ELECTRIC CABINET LASER SIGNAL TERMINAL BOARD	CMS3085SEL
Designer					NC-MAXIMA
Plot	21.10.02				Pg. 703



703

705

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	MACHINE LOWER BOX SIGNAL TERMINAL BOARD	CMS3085SEL
Designer					NC-MAXIMA
Plot	21.10.02				Pg. 704

Changes	21.10.02
Designer	
Plot	21.10.02

Notes

704

FUNCTION	TERMINAL STRIP XT21-B				PAGE/ COLUMN
	FROM:	TERMINAL N^	Bond	TO:	
Z AXIS BRAKE	XT01-B	N501		XC504	24.1
Z AXIS BRAKE	XT01-B	L501		XC504	24.2
0V	XT01-B	1			52.1
+24V	XT01-B	2			52.2
AXIS EXTRASTROKE	XT01-B	120		SQ511	82.3
AXIS EXTRASTROKE		121		SQ511	82.3
AXIS EXTRASTROKE		121		SQ531	82.3
AXIS EXTRASTROKE	XT01-B	122		SQ531	82.3
HYDRAULIC PUMP OIL DRAIN OPERATION	DO9	241		YV5	105.2
CONE BLOWER	DO10	244		YV191	105.5
X AXIS ZERO POINT	DI11	452		SQ510	126.3
Z AXIS ZERO POINT	DI14	466		SQ530	127.7

706

C.M.S.
ZOGNO (BG) ITALY
S.P.A.

MACHINE UPPER BOX SIGNAL TERMINAL BOARD

CMS3085SEL
NC-MAXIMA

Pg. 705

CMS1005

0 1 2 3 4 5 6 7 8 9

FUNCTION	TERMINAL STRIP XT31-B FROM:	TERMINAL N^	Bond	TO:	PAGE/ COLUMN
0V		1			52.0
0V		1			52.0
0V	XT01-B	1			52.0
0V	XT01-B	1			52.1
+24V	XT01-B	2			52.2
+24V	XT01-B	2			52.2
+24V		2			52.2
+24V		2			52.2
BASCULATING CLUTCH	DO10	245		YV2	105.6
VERTICAL HEAD	DO10	246		YV30	105.7
SLOPING HEAD	DO10	247		YV30	105.8
VERTICAL HEAD	DI7	430		SQ330	124.1
SLOPING HEAD	DI7	431		SQ331	124.2
BASCULATING CLUTCH	DI7	432		SP206	124.3
AXIS LUBRICATION PRESSURE	DI11	450		SP205	126.1
ROTATING JOINT FLUID LEAKAGE CONTROL	DI12	457		SQ541	42.5
TOOL RELEASE	DI14	465		SB20	127.6
C AXIS ZERO POINT	DI14	467		SQ570	127.8
THERMAL CUT-OUT OF ELECTROSPINDLE	DI14	A01		M81	42.4
TOOL RELEASED	DI13	A02		SQ351	42.4
TOOL MISSING	DI13	A03		SQ350	42.4

CMS1005

Changes 21.10.02

Designer

Plot 21.10.02

Notes

C.M.S. S.P.A.
ZOGNO (BG) ITALY

SIGNAL TERMINAL BOARD OF HEAD BOX

CMS3085SEL
NC-MAXIMA

0 1 2 3 4 5 6 7 8 9

BASE LIST

IEC1033

SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
A0	1	ELECTRIC CABINET	1000X2000X800	PD 675/103	SIM	183397	401.1.52
A0	2	FANUC DRIVES SUPPORTING ANGLE BAR	TRIAX-432-01			TRIAX-432-01	401.1.52
A0	2	FANUC DRIVES SUPPORT	TRIAX-431-01			TRIAX-431-01	401.1.52
A0	4	CABLE-HOLDING BAR SUPPORT	FANUC/TDE	1092-023-12	CMS	1092-023-12	401.1.52
A0	1	MAIN POWER SUPPLY PLATE	TRIAX-425-01			819500	401.1.52
A3	1	SCREEN CARRIAGE	KOMMANDER	PD 675/78	SIM	183389	403.5
A11	1	PANEL I	10.4" LCD COLOR	A13B-0193-B031	FANUC	103706	301.1
A12	1	SEPARATE TYPE FULL KEYBOARD	PER IT3	A02B-0236-C131/EC	FANUC	103647	301.1
A13	1	OPERATOR PANEL (MAIN PANEL B)		A02B-0236-C231	FANUC	103639	302.1
A14	1	OPERATOR PANEL (SUB PANEL)		A02B-0236-C232	FANUC	103640	302.1
A15	1	CNC FANUC 180IT MB	STAND ALONE 1 SLOT	A02B-0283-B801	FANUC	103648	300.0
A16	1	CONVERTER	RS232 TO RS422	C1-25-CMS	SIELCO	103698	323.3
A21	1	FLOPPY DISK DRIVE UNIT	CN FANUC	FDU2	SOLUZIONI-IT	103229	301.0
A22	1	OPTICAL MOUSE	PS/2	12167	SOLUZIONI-IT	130567	301.8
A23	1	ETHERNET CARD	PCI3XP DES128BITRJ-45 R	3CR990-TX-97	PROJECT INFORMATICA	X605023	301.7
A31	1	SAFETY MODULE	24VDC	PNOZ X3	PILZ	140041	81.1
A32	1	DELAYED MODULE	24VDC	PZE X4V	PILZ	140034	81.6
A41	1	CONTROL UNIT	AU-S-TWIN	1201708	REER	160411	84.1
A71	1	OPERATOR 232/422/485		00.F4.010-1009	KEB	151371	41.7
AR9	1	CONNECTOR AND OUTLET PANEL	113X130MM	67699	MURRELEKTRONIK	130566	351.1
AR10	1	ALUMINIUM PANEL	483X500	PD 675/80	SIM	183270	403.5
AR11	1	ALUMINIUM PANEL	483X300	PD 675/82	SIM	183271	403.3
AR151	1	ELECTRONIC HANDWHEEL PUSH-BUTTON PANEL		XMVEP 100-5B-N-VM5-08S	ELCIS	140168	261.4
AS0	1	ACTUATOR POWER SUPPLY	PSM-5,5 I	A06B-6110-H006	FANUC	104326	21.2
AS1	1	2 AXIS MODULE	SVM2-80/80 I	A06B-6114-H209	FANUC	104330	21.3
AS2	1	1 AXIS MODULE	SVM1-80 I	A06B-6114-H105	FANUC	104329	21.5
AS3	1	1 AXIS MODULE	SVM1-20 I	A06B-6114-H103	FANUC	104328	21.6
CA64_A	1	CONNECTOR	3 P.F.	1-178288-3	AMP	191182	302.3
CA64_A	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	302.3
CA64_B	1	CONNECTOR	3 P.F.	1-178288-3	AMP	191182	302.3
CA64_B	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	302.3
CB150	1	CONNECTOR	50 P.F.	MR 50 MF	HONDA	190911	305.2
CB150	1	CASING	50 P.	MR 50 L	HONDA	190913	305.2
CM68	1	CONNECTOR	20 P	178289-8	AMP	191186	302.2
CM68	20	CONNECTOR CONTACT		1-175218-2	AMP	191177	302.2
CM69	1	CONNECTOR	20 P	178289-8	AMP	191186	302.3
CM69	20	CONNECTOR CONTACT		1-175218-2	AMP	191177	302.3
CP1	1	CONNECTOR	3 P.F.	1-178288-3	AMP	191182	300.3
CP1	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	300.3
CP5	1	CONNECTOR	3 P.F.	2-178288-3	AMP	191184	301.2
CP5	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	301.2
CX1A	1	CONNECTOR	3 P.F.	1-178128-3	AMP	191178	21.2
CX1A	3	CONNECTOR CONTACT		1-175218-2	AMP	191177	21.2
CX3	1	CONNECTOR	3 P.F.	2-178128-3	AMP	191183	21.2
CX3	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	21.2
CX4	1	CONNECTOR	3 P.F.	1-178128-3	AMP	191178	21.3
CX4	2	CONNECTOR CONTACT		1-175218-2	AMP	191177	21.3
CZ1/0	1	CONNECTOR	4 P. - XX	1-917807-2	AMP	191165	21.2
CZ1/0	3	CONNECTOR CONTACT	M	316041-6	AMP	191170	21.2
D200	1	BASIC I/O MODULE		A03B-0815-C001	FANUC	103611	305.2

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3085SEL
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SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
D901	1	NODE TERMINATION		750-600	WAGO	103137	303.7
D1001	1	COUPLER	PROFIBUS DP/FMS DIG	750-323	WAGO	103135	303.2
DI1	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.4
DI2	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.5
DI3	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.5
DI4	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.5
DI5	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.5
DI6	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.5
DI7	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.6
DI8	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.6
DI9	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.6
DI10	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.6
DI11	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.6
DI12	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.7
DI13	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.7
DI14	1	DIGITAL INLET MODULE	4IN 24VDC 3MS HIGH SIDE	750-402	WAGO	103138	303.7
DO1	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.2
DO2	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.3
DO3	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.3
DO4	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.3
DO5	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.3
DO6	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.3
DO7	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.4
DO8	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.4
DO9	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.4
DO10	1	DIGITAL OUTLET MODULE	4OUT 24VDC 0.5A HIGH SIDE	750-504	WAGO	103139	303.4
EC1	1	CONDITIONER	520W - 50HZ	PXD-5210	SIM	152079	51.1
EV1	1	FAN	24VDC	4184 NX-24VDC	PAMOCO	150569	301.0
F1	1	LIGHTNING SURGE PROTECTOR		A06B-6077-K142	FANUC	103631	20.1
FA1	1	TRIPOLAR AUTOMATIC SWITCH	6A	5SY6306-7BB	SIEMENS	121027	20.2
FA1	1	CONTACTS BLOCK	1NO + 1NC	5ST3010	SIEMENS	120237	20.2
FA2	1	MONOPOLAR AUTOMATIC SWITCH	4A	5SY6104-7BB	SIEMENS	121128	52.1
FA4	1	MONOPOLAR AUTOMATIC SWITCH	10A	5SY6110-7BB	SIEMENS	121123	52.5
FA11	1	MONOPOLAR AUTOMATIC SWITCH	2A	5SY6102-7BB	SIEMENS	121122	52.7
FA13	1	MONOPOLAR AUTOMATIC SWITCH	6A	6SY6106-7BB	SIEMENS	121119	51.1
FA15	1	MAGNETOTHERMAL DIFFERENTIAL SWITCH	6A	5SU 3747-0KV06	SIEMENS	121001	51.3
FA16	1	MONOPOLAR AUTOMATIC SWITCH	4A	5SY6104-7BB	SIEMENS	121128	51.4
FA17	1	MONOPOLAR AUTOMATIC SWITCH	0.5A	5SY6105-7BB	SIEMENS	121118	51.6
FA31	1	MONOPOLAR AUTOMATIC SWITCH	6A	6SY6106-7BB	SIEMENS	121119	52.8
FA32	1	MONOPOLAR AUTOMATIC SWITCH	2A	5SY 4102.5	SIEMENS	121081	52.9
FA36	1	MONOPOLAR AUTOMATIC SWITCH	6A	6SY6106-7BB	SIEMENS	121119	53.8
GB1	1	DC-USV ACCUMULATOR15	3.2AH	6EP1935-6MD11	SIEMENS	101087	53.5
GS2	1	24V POWER SUPPLY	400/24V 20A	6EP1436-2BA00	SIEMENS	101068	52.1
GS15	1	SITOP MODULE DC-USV15	15A	6EP1931-2EC01	SIEMENS	101086	53.2
HL2	1	LAMP	60MA 28V	7458/935	REER	130250	299.8
HL4	1	LAMP	60MA 28V	7458/935	REER	130250	84.8
HL13	1	LAMP	60MA 28V	7458/935	REER	130250	299.7
HL20	1	LAMP	60MA 28V	7458/935	REER	130250	52.3
HL20	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	52.3
HL20	1	WHITE INDICATOR LAMP		800EM-P7	ALLEN-BRADLEY	130385	52.3

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3085SEL
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SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
HL31	1	LAMP	60MA 28V	7458/935	REER	130250	299.7
HL71	1	LAMP	60MA 28V	7458/935	REER	130250	299.6
JD1A/2	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	305.2
JD1A/2	1	CASING	20 P.	FI20/CV5	HIROSE	191176	305.2
JD1B/1	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	305.2
JD1B/1	1	CASING	20 P.	FI20/CV5	HIROSE	191176	305.2
JD1B/2	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	302.6
JD1B/2	1	CASING	20 P.	FI20/CV5	HIROSE	191176	302.6
JD44A	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	300.7
JD44A	1	CASING	20 P.	FI20/CV5	HIROSE	191176	300.7
JNA10P	1	CONNECTOR	PROFIBUS ERNI 104 050	750-950	WAGO	191351	300.3
KA5	1	SAFETY CUTOUT RELAY	EMRSI 3+1	31E0117295	EUROGI	141211	102.2
KA50	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	101.3
KA641	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	103.2
KA642	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	102.4
KA661	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	103.1
KA662	1	MODULAR RELAY	230V 6A COSFI' 1	38-51-7-024-0050	FINDER	170700	102.3
KM1	1	CONTACTOR	30KW S3	3RT1044-1BB40	SIEMENS	120144	21.1
KM1	1	CONTACTS BLOCK	1NC	3RH1921-1CA01	SIEMENS	120229	21.1
KM1	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	21.1
KM31	1	CONTACTOR	7,5KW S0	3RT1025-1BB40	SIEMENS	120142	101.1
KM31	1	FILTER	RC S0	3RT1926-1CB00	SIEMENS	141207	101.1
KM36	1	CONTACTOR	4KW S00	3RT1016-1BB41	SIEMENS	120141	102.5
KM36	1	FILTER	RC S00	3RT1916-1CB00	SIEMENS	141206	102.5
KM41	1	CONTACTOR	4KW S00	3RT1016-1BB41	SIEMENS	120141	102.6
KM41	1	FILTER	RC S00	3RT1916-1CB00	SIEMENS	141206	102.6
KM42	1	CONTACTOR	4KW S00	3RT1016-1BB41	SIEMENS	120141	102.7
KM42	1	FILTER	RC S00	3RT1916-1CB00	SIEMENS	141206	102.7
KM51	1	4-POLE CONTACTOR	24V	3RT1316-1BB40	SIEMENS	120138	101.4
KM51	1	FILTER	RC S00	3RT1916-1CB00	SIEMENS	141206	101.4
KM71	1	CONTACTOR	15KW S2	3RT1034-1BB40	SIEMENS	120143	101.5
KM71	1	CONTACTS BLOCK	1NC	3RH1921-1CA01	SIEMENS	120229	101.5
KM71	1	FILTER	RC S2 S3	3RT1936-1CB00	SIEMENS	141209	101.5
L0	1	FERRITE CORE		LF-130	SGE SYSCOM	141200	21.1
L1	1	FERRITE CORE		LF-130	SGE SYSCOM	141200	321.4
L2	1	FERRITE CORE		LF-130	SGE SYSCOM	141200	321.6
L11	1	ACTUATOR AC REACTOR		A81L-0001-0155	FANUC	104327	20.5
L71	1	THREE-PHASE INDUCTANCE	L=1080µH 30A 50/60HZ	RT-00K6-AN	EUROTRAFO	141289	41.1
QF1	1	TRIPOLAR AUTOMATIC SWITCH	9-12,5A S0	3RV1421-1KA10	SIEMENS	121179	20.2
QF1	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	20.2
QF2	1	TRIPOLAR AUTOMATIC SWITCH	32A S2	3RV1331-4EC10	SIEMENS	121183	20.5
QF11	1	TRIPOLAR AUTOMATIC SWITCH	2,2-3,2A S0	3RV1421-1DA10	SIEMENS	121175	51.1
QF11	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	51.1
QF13	1	TRIPOLAR AUTOMATIC SWITCH	2,2-3,2A S0	3RV1021-1DA10	SIEMENS	121164	52.1
QF13	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	52.1
QF31	1	TRIPOLAR AUTOMATIC SWITCH	7-10A S0	3RV1021-1JA10	SIEMENS	121167	11.0
QF31	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	11.0
QF31	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11.0
QF36	1	TRIPOLAR AUTOMATIC SWITCH	2,8-4A S00	3RV1011-1EA10	SIEMENS	121165	11.3
QF36	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	11.3

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SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
QF36	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11.3
QF41	1	TRIPOLAR AUTOMATIC SWITCH	1,1-1,6A S00	3RV1011-1AA10	SIEMENS	121162	11.5
QF41	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	11.5
QF41	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11.5
QF42	1	TRIPOLAR AUTOMATIC SWITCH	1,8-2,5A S00	3RV1011-1CA10	SIEMENS	121163	11.6
QF42	1	ADAPTER	182X45MM S00 S0	W 32160	WOHNER	120837	11.6
QF42	1	CONTACTS BLOCK	1NO+1NC	3RV1901-1D	SIEMENS	120232	11.6
QF71	1	TRIPOLAR AUTOMATIC SWITCH	32A S2	3RV1331-4EC10	SIEMENS	121183	41.1
QF71	1	ADAPTER	242X54MM S2	W 32009 + W 32940	WOHNER	120838	41.1
QS0	1	MAIN CIRCUIT BREAKER	100A- 37KW	3LD2704-0TK51+3LD9280-5B	SIEMENS	121115	10.1
QS0	3	TERMINAL BOARD GUARD		3LD9281-2A	SIEMENS	121109	10.1
RR71	1	BRAKING RESISTANCE	82+82 OHM 2600W	SRFT2600	SIR	6146	41.5
SA3	1	KEY SELECTOR		800EM-KM2R1	ALLEN-BRADLEY	130392	81.3
SA3	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	81.3
SA3	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	81.3
SA16	1	HAND GRIP SELECTOR		800EM-SM22	ALLEN-BRADLEY	130391	298.4
SA16	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	298.4
SA16	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	298.4
SA18	1	HAND GRIP SELECTOR		800EM-SM22	ALLEN-BRADLEY	130391	299.3
SA18	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	299.3
SA18	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	299.3
SA19	1	KEY SELECTOR		800EM-KM2R303R	ALLEN-BRADLEY	130395	299.4
SA19	2	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	299.4
SA19	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	299.4
SB1	1	BLAC PUSH-BUTTON		800EM-E2	ALLEN-BRADLEY	130361	82.3
SB1	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	82.3
SB1	1	CONTACT HOLDER		800A2L	ALLEN-BRADLEY	130354	82.3
SB14	1	FOOT-CONTROL LEVER	1NO + 1NC	PCA 00 IP65	ERSCE	130121	125.1
SB20	1	PUSH-BUTTON		AV630	OMEGA	130336	127.6
SB20	1	RUBBER CAP		PG019	OMEGA	130337	127.6
SH2	1	BLUE ILLUMINATED PUSH-BUTTON		800EM-LF6	ALLEN-BRADLEY	130373	81.3
SH2	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	81.3
SH2	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	81.3
SH4	1	BLUE ILLUMINATED PUSH-BUTTON		800EM-LF6	ALLEN-BRADLEY	130373	84.7
SH4	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	84.7
SH4	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	84.7
SH13	1	GREEN BACKLIGHTED PUSH-BUTTON		800EM-LF3	ALLEN-BRADLEY	130376	299.3
SH13	1	CONTACTS BLOCK	1NO	800E-2X10	ALLEN-BRADLEY	130351	299.3
SH13	1	LAMP HOLDER		800E-2DL0	ALLEN-BRADLEY	130353	299.3
SH31	1	DUAL-CONTROL PUSH-BUTTON		800EP-LU2E213DL0X11	ALLEN-BRADLEY	130360	299.2
SH71	1	DUAL-CONTROL PUSH-BUTTON		800EP-LU2E213DL0X11	ALLEN-BRADLEY	130360	299.1
SQ01	1	POSITION SWITCH	3SE3 200-1C		SIEMENS	140554	121.5
SQ02	1	POSITION SWITCH	3SE3 200-1C		SIEMENS	140554	121.5
ST10	1	THERMOSTAT		SK-3112	RITTAL	100610	121.3
TV0	1	THREE-PHASE AUTO-TRANSFORMER	30KVA 200/400V	30A002	CTS	180528	10.3
TV1	1	THREE-PHASE TRANSFORMER	7KVA 400/220-200V	07T001	CTS	180655	20.2
TV2	1	MONOPHASE TRANSFORMER	TMIBE 1000VA 400/230V 50/60HZ	856423/IP20	ERC	180558	51.1
UF71	1	FREQUENCY CONVERTER	COMPACT SUPER 11KW 800HZ	15.F4.CE6-M440	KEB	151396	41.1
W200	1	OPTICAL FIBRE CABLE	3 M	A66L-6001-0026/L 3R03	FANUC	103646	300.2
W201	1	OPTICAL FIBRE CABLE	0.3 M	A02B-0236-K852	FANUC	103626	21.5

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	BASIC SPARE PARTS LIST	CMS3085SEL
Designer	BRN				NC-MAXIMA
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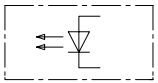
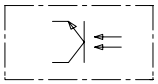
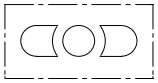
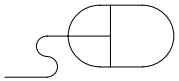
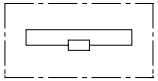
SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
W202	1	OPTICAL FIBRE CABLE	0.3 M	A02B-0236-K852	FANUC	103626	21.6
W205	1	OPTICAL FIBRE CABLE	15 M	A66L-6001-0026/L 15R03	FANUC	103644	300.1
W248	1	CABLE	RJ45 15 MT		ELETTROCABLAGGI	X100322	321.7
WB0	1	COVER		W 01413	WOHNER	181267	10.7
WB0	1	BAR HOLDER SUPPORT		W 01774	WOHNER	110841	10.7
XC64	1	CONNECTOR	3 P.F.	SP 891	CANNON	190755	51.6
XC64	1	CONNECTOR	3 P.M.	SP 891 V 6675	CANNON	190745	51.6
XC66	1	CONNECTOR	3 P.F.	SP 891	CANNON	190755	51.8
XC66	1	CONNECTOR	3 P.M.	SP 891 V 6675	CANNON	190745	51.8
XC152	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	261.2
XC152	1	CASING	20 P.	FI20/CV5	HIROSE	191176	261.2
XC165	1	HANDWHEEL CONNECTOR	12 P.F.	84031870IS	SOURIAU	191119	273.3
XC165	1	EXTENDER CONNECTOR	12 P.M.	84031530IS	SOURIAU	191118	273.3
XC165	2	CABLE CLAMP CONNECTION	12 P.	84001815PG13IS	SOURIAU	191139	273.3
XC166	1	WALL CONNECTOR	12 P.F.	840-31-172	SOURIAU	191125	273.3
XC166	1	CONNECTOR	12 P.M.	840-31-830	SOURIAU	191115	273.3
XC166	2	CABLE CLAMP CONNECTION	12 P.	84001815PG13IS	SOURIAU	191139	273.3
XC166	1	PLUG	12 P.	8400-13	SOURIAU	191158	273.3
XC230	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	321.0
XC230	1	CASING	20 P.	FI20/CV5	HIROSE	191176	321.0
XC232	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	321.5
XC232	1	CASING	20 P.	FI20/CV5	HIROSE	191176	321.5
XC234	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	322.2
XC234	1	CASING	20 P.	FI20/CV5	HIROSE	191176	322.2
XC235	1	CUP CONNECTOR	25 P.F.	SUB-D 25	COMSEL	190711	322.2
XC235	1	METALIZED PLASTIC CAP	25 P.	FKC3GA	ELCOM	191302	322.2
XC236	1	CONNECTOR	20 P.F.	FI40A/20S	HIROSE	191175	323.4
XC236	1	CASING	20 P.	FI20/CV5	HIROSE	191176	323.4
XC237	1	CUP CONNECTOR	9 P.M.	SUB-D 9	COMSEL	190728	323.4
XC237	1	METALIZED PLASTIC CAP	9 P.	FKC1GA	ELCOM	191300	323.4
XC238	1	CUP CONNECTOR	9 P.M.	SUB-D 9	COMSEL	190728	323.4
XC238	1	METALIZED PLASTIC CAP	9 P.	DCM9UN4	BELCO	191314	323.4
XC250A	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.1
XC250A	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.1
XC250B	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.1
XC250B	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.1
XC251A	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.4
XC251A	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.4
XC251B	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.4
XC251B	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.4
XC252A	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.7
XC252A	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.7
XC252B	1	CONNECTOR	8 P.	1-1318119-4	AMP	191201	28.7
XC252B	8	CONNECTOR CONTACT		1318107-1	AMP	191202	28.7
XC281	1	CONNECTOR	3 P.M.	SP 891 V 6675	CANNON	190745	124.4
XC281	1	CONNECTOR	3 P.F.	SP 891	CANNON	190755	124.4
XC293	1	CONNECTOR	PROFIBUS ERNI 104 050	750-950	WAGO	191351	303.2
XC504	1	CONNECTOR	4 P.F.	JN1FS04F1	JAE	191221	24.1
XC510	1	CONNECTOR	4 P. - XX	1-917807-2	AMP	191165	22.3
XC510	4	CONNECTOR CONTACT	M	316041-6	AMP	191170	22.3

BASE LIST

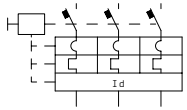
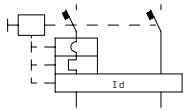
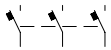
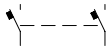
IEC1033

SIGN.	Q.TY	DESCRIPTION	TYPE	ORDER NUMBER	MAKER	CMS CODE	PAGE/ COLUMN
XC514	1	POWER CONNECTOR	4 P.F.	TLC8Z22-22S-S01-MB	BIESSE	191191	22.3
XC515	1	CONNECTOR	15 P.	FI40/2015 S	HIROSE	191173	23.1
XC515	1	CASING	20 P.	FI-20-CV	HIROSE	191174	23.1
XC519	1	CONNECTOR	10 P.	JN1FS10SL1	JAE	191211	23.1
XC519	7	CONNECTOR CONTACT		JN1-22-22S	JAE	191212	23.1
XC520	1	CONNECTOR	4 P. - XY	3-917807-2	AMP	191166	22.6
XC520	4	CONNECTOR CONTACT	M	316041-6	AMP	191170	22.6
XC524	1	POWER CONNECTOR	4 P.F.	TLC8Z22-22S-S01-MB	BIESSE	191191	22.6
XC525	1	CONNECTOR	15 P.	FI40/2015 S	HIROSE	191173	23.6
XC525	1	CASING	20 P.	FI-20-CV	HIROSE	191174	23.6
XC529	1	CONNECTOR	10 P.	JN1FS10SL1	JAE	191211	23.6
XC529	7	CONNECTOR CONTACT		JN1-22-22S	JAE	191212	23.6
XC530	1	CONNECTOR	4 P. - XX	1-917807-2	AMP	191165	24.4
XC530	4	CONNECTOR CONTACT	M	316041-6	AMP	191170	24.4
XC534	1	POWER CONNECTOR	4 P.F.	TLC8Z22-22S-S01-MB	BIESSE	191191	24.4
XC535	1	CONNECTOR	15 P.	FI40/2015 S	HIROSE	191173	25.4
XC535	1	CASING	20 P.	FI-20-CV	HIROSE	191174	25.4
XC539	1	CONNECTOR	10 P.	JN1FS10SL1	JAE	191211	25.4
XC539	7	CONNECTOR CONTACT		JN1-22-22S	JAE	191212	25.4
XC570	1	CONNECTOR	4 P. - XX	1-917807-2	AMP	191165	26.4
XC570	4	CONNECTOR CONTACT	SS	1318986-6	AMP	191168	26.4
XC574	1	CONNECTOR	4 P.	55765-0000	MOLEX	191231	26.4
XC574	4	CONNECTOR CONTACT		56052-8100	MOLEX	191232	26.4
XC575	1	CONNECTOR	15 P.	FI40/2015 S	HIROSE	191173	27.4
XC575	1	CASING	20 P.	FI-20-CV	HIROSE	191174	27.4
XC579	1	CONNECTOR	10 P.	JN1FS10SL1	JAE	191211	27.4
XC579	7	CONNECTOR CONTACT		JN1-22-22S	JAE	191212	27.4
Z1	1	THREE-PHASE MAINS FILTER	480V 55A	FN3258-55/52	SCHAFFNER	141277	20.5
Z50	1	DIODE	1N 4007	60/7105	C&D	141214	24.2

0	1	2	3	4	5	6	7	8	9

SYMBOL	DESCRIPTION	CATEGORY
	LASER PROJECTOR	A
	LASER RECEIVER	A
	PHOTOELECTRIC PROJECTOR	A
	PHOTOELECTRIC RECEIVER	A
	PANEL MOUSE	A
	MOUSE	A
	FLOPPY DISK DRIVE	A

SYMBOL	DESCRIPTION	CATEGORY
	TRANSDUCER	B
	CONDENSER	C
	CONDITIONER	E
	VENTILATOR	E

SYMBOL	DESCRIPTION	CATEGORY
	MAGNETO-THERMAL DIFFERENTIAL AUTOMATIC SWITCH	F
	MAGNETO-THERMAL DIFFERENTIAL AUTOMATIC SWITCH	F
	MAGNETO-THERMAL THREE-POLE AUTOMATIC SWITCH	F
	MAGNETO-THERMAL TWO-PHASE AUTOMATIC SWITCH	F
	MAGNETO-THERMAL UNIPOLAR AUTOMATIC SWITCH	F
	SURGE ARRESTER	F
	SURGE ARRESTER WITH EXCHANGE CONTACT	F

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 851

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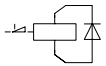
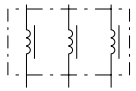
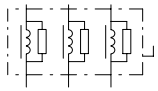
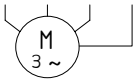
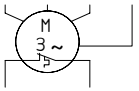
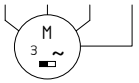
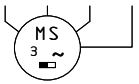
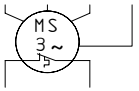
SYMBOL	DESCRIPTION	CATEGORY
	POWER SUPPLY	G
	LIGHTED WARNING	H
	RELAY COIL	K

SYMBOL	DESCRIPTION	CATEGORY
	RELAY COIL WITH RC FILTER	K
	RELAY COIL WITH MECHANICAL BLOCK	K
	RELAY COIL WITH MECHANICAL BLOCK WITH DIODE	K
	FERRITE CORE	L
	FERRITE CORE WITH TURN	L
	THREE-PHASE INDUCTANCE	L

SYMBOL	DESCRIPTION	CATEGORY
	THREE-PHASE INDUCTANCE WITH PARALLEL RESISTORS	L
	ONE-SPEED THREE-PHASE A.C. MOTOR	M
	ONE-SPEED A.C. THREE-PHASE MOTOR WITH THERMO-DETECTOR	M
	A.C. PERMANENT-MAGNET THREE-PHASE MOTOR	M
	PERMANENT-MAGNET A.C. THREE-PHASE SYNCHRONOUS MOTOR	M
	A.C. THREE-PHASE SYNCHRONOUS MOTOR WITH THERMO-DETECTOR	M

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Changes	21.10.02	Notes
Designer	BRN	
Plot	21.10.02	

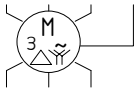
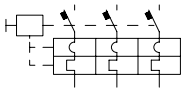
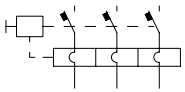
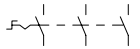
C.M.S. S.p.A.
ZOGNO (BG) ITALY

CIRCUIT SYMBOLS

CMS3085SEL

NC-MAXIMA

0	1	2	3	4	5	6	7	8	9

SYMBOL	DESCRIPTION	CATEGORY
	STAR DELTA THREE-PHASE A.C. MOTOR	M
	D.C. MONOPHASE MOTOR	M
	MAGNETO-THERMAL THREE-POLE AUTOMATIC SWITCH	Q
	MAGNETIC THREE-POLE AUTOMATIC SWITCH	Q
	THREE-POLE SWITCH	Q

SYMBOL	DESCRIPTION	CATEGORY
	RESISTOR	R
	VARISTOR	R
	NORMALLY-OPEN CONTACT	S
	NORMALLY-CLOSED CONTACT	S
	DE-ENERGIGIZING-DELAYED NORMALLY-OPEN CONTACT	S
	THERMAL CUT-OUT WITH NORMALLY-CLOSED MANUAL RELEASE	S
	THERMAL BUTTON	S

SYMBOL	DESCRIPTION	CATEGORY
	0-EXTRACTABLE NORMALLY-OPEN STABLE KEY SELECTOR	S
	LIVE-OPENING 0-EXTRACTABLE NORMALLY-CLOSED STABLE KEY SELECTOR	S
	0- AND 1-EXTRACTABLE NORMALLY-OPEN STABLE KEY SELECTOR	S
	LIVE-OPENING 0- AND 1-EXTRACTABLE NORMALLY-CLOSED STABLE KEY SELECTOR	S
	0- 1- AND 2-EXTRACTABLE 3-POSITION NORMALLY-OPEN STABLE KEY SELECTOR	S
	STABLE NORMALLY-OPEN HAND-GRIP SELECTOR	S

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Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 853

0	1	2	3	4	5	6	7	8	9

SYMBOL	DESCRIPTION	CATEGORY
	LIVE-OPENING NORMALLY-CLOSED STABLE HAND-GRIP SELECTOR	S
	NORMALLY-OPEN UNSTABLE HAND-GRIP SELECTOR	S
	LIVE-OPENING NORMALLY-CLOSED UNSTABLE HAND-GRIP SELECTOR	S
	LIVE-OPENING NORMALLY-CLOSED MUSHROOM EMERGENCY PUSH-BUTTON	S

SYMBOL	DESCRIPTION	CATEGORY
	LIVE-OPENING NORMALLY-CLOSED ROPE-OPERATED EMERGENCY TENSION ROD	S
	NORMALLY-OPEN PRESSURE-SWITCH	S
	NORMALLY-CLOSED PRESSURE-SWITCH	S
	NORMALLY-OPEN PRESSURE-SWITCH WITH INTERLOCK	S
	NORMALLY-CLOSED PRESSURE-SWITCH WITH INTERLOCK	S
	NORMALLY-OPEN PEDAL PUSH-BUTTON	S
	NORMALLY-CLOSED PEDAL PUSH-BUTTON	S

SYMBOL	DESCRIPTION	CATEGORY
	NORMALLY-OPEN SAFETY LIMIT SWITCH WITH KEY	S
	NORMALLY-CLOSED SAFETY LIMIT SWITCH WITH LIVE-OPENING KEY	S
	NORMALLY-OPEN MULTIFUNCTION CAM LIMIT SWITCH	S
	NORMALLY-CLOSED MULTIFUNCTION CAM LIMIT SWITCH	S
	NORMALLY-OPEN ELECTRO-MECHANICAL LIMIT SWITCH	S

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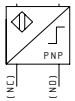
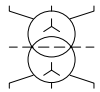
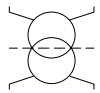
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3085SEL NC-MAXIMA
Designer	BRN				Pg. 854
Plot	21.10.02				

SYMBOL	DESCRIPTION	CATEGORY
	NORMALLY-CLOSED ELECTRO-MECHANICAL LIMIT SWITCH	S
	LIVE-OPENING NORMALLY-CLOSED ELECTRO-MECHANICAL LIMIT SWITCH	S
	OPTICAL PROXIMITY SENSOR	S
	INDUCTIVE PROXIMITY SENSOR	S
	NORMALLY-OPEN MAGNETIC PROXIMITY SENSOR	S

SYMBOL	DESCRIPTION	CATEGORY
	NORMALLY-CLOSED MAGNETIC PROXIMITY SENSOR	S
	NORMALLY-OPEN THERMOSTAT	S
	NORMALLY-CLOSED THERMOSTAT	S
	INDUCTIVE NORMALLY-OPEN MANOSTAT	S
	NORMALLY-OPEN MANOSTAT	S
	NORMALLY-CLOSED MANOSTAT	S

SYMBOL	DESCRIPTION	CATEGORY
	NORMALLY-OPEN FLOW GAUGE	S
	NORNALLY-CLOSED FLOW GAUGE	S
	STAR/STAR THREE-PHASE TRANSFORMER	T
	MONOPHASE TRANSFORMER	T

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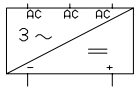
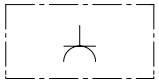
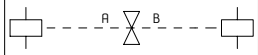
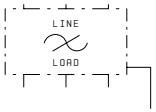
Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 855

0	1	2	3	4	5	6	7	8	9

SYMBOL	DESCRIPTION	CATEGORY
	STAR THREE-PHASE AUTOTRANSFORMER	T
	THREE-PHASE RECTIFIER	V
	DIODE	V
	LED	V
	OPTICAL FIBRE CABLE	W
	SPREAD BAR	W

SYMBOL	DESCRIPTION	CATEGORY
	TERMINAL	X
	FEMALE CONNECTOR	X
	MALE CONNECTOR	X
	OUTLET	X
	RING-COLLECTOR CONNECTION	X
	MONOSTABLE SOLENOID VALVE	Y

SYMBOL	DESCRIPTION	CATEGORY
	BISTABLE SOLENOID VALVE	Y
	PROPORTIONAL SOLENOID VALVE	Y
	ELECTROMAGNETIC BRAKE	Y
	ELECTRO-LOCK	Y
	THREE-POLE LINE TRAP	Z

855 901

Changes	21.10.02	Notes	C.M.S. S.p.A. ZOGNO (BG) ITALY	CIRCUIT SYMBOLS	CMS3085SEL
Designer	BRN				NC-MAXIMA
Plot	21.10.02				Pg. 856

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